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TIME TABLE

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BULLETIN · UNIVERSITY OF ILLINOIS · URBANA DEPARTMENTS

SUMMER SESSION 1970

SUPPLEMENT INFORMATION ON PAGE 2

A supplement to the time table will be printed shortly before the summer session begins. Students and staff using the time table at the time of registration are advised to consult the supplement for possible changes. Copies are furnished to advisers and department offices.

UNIVERSITY OF ILLINOIS BULLETIN

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CALENDAR FOR EIGHT-WEEK SUMMER SESSION, 1970

May 27, Wed.-May 28, Thurs.....Registration for 1970 Summer Session off-campus courses, College of Law, and student registration staff, including payment of tuition and fees.

June 1, Mon., 3:10 p.m.....Meeting of Urbana-Champaign Senate.

June 8, Mon.-July 15, Wed.....First session Summer Law Program.

June 12, Fri., 5:00 p.m.....Latest date for full refund of tuition and fees (except nonrefundable portion) if withdrawing from College of Law *first* five and one-half week session. (First five days.)

June 18, Thurs., 5:00 p.m.....Latest date for full refund of tuition and fees (except nonrefundable portion) if withdrawing from College of Law eleven-week term. (First ten days.)

June 22, Mon.....Registration.

June 23, Tues., 7:00 a.m.....Instruction begins.

June 23, Tues.-Aug. 5, Wed.....Advance enrollment advising for September, 1970, registration of new and readmitted students.
(excluding July 3—nonacademic holiday)

June 24, Wed., 5:00 p.m.....Latest date for refund of one-half tuition and fees (except nonrefundable portion) if withdrawing from College of Law *first* five and one-half week session. (First fifteen days.)

June 29, Mon.....Last date for undergraduates to add a new course.

June 29, Mon., 5:00 p.m.....Latest date for full refund of tuition and fees (except nonrefundable portion) if withdrawing from the University or reducing program range in eight-week session. (First five days.)

July 4, Sat.....Independence Day (holiday).

July 15, Wed.....Board of Trustees Meeting.

July 16, Thurs.-Aug. 22, Sat.....Second session Summer Law Program.

July 20, Mon.....Beginning of second four-week courses.

July 20, Mon., 5:00 p.m.....Latest date for refund of one-half tuition and fees (except nonrefundable portion) if withdrawing from College of Law eleven-week term. (First six weeks.)

July 21, Tues., 5:00 p.m.....Last date for undergraduates to withdraw from a course without penalty.

July 21, Tues., 5:00 p.m.....Latest date for refund of one-half tuition and fees (except nonrefundable portion) if withdrawing from the University or reducing program range in eight-week session. (First four weeks.)

July 21, Tues., 5:00 p.m.....Latest date for full refund of tuition and fees (except nonrefundable portion) if withdrawing from College of Law *second* five and one-half week session. (First five days.)

July 22, Wed.....Earliest date for one-half credit if withdrawing from the University for military service (four weeks instruction completed), except Law.

July 24, Fri., 5:00 p.m.....Latest date for full refund of tuition and fees (except nonrefundable portion) if withdrawing from *second* four-week courses only. (First five days.)

July 29, Wed.....Latest date for foreign students who have not attended a college or university in the United States to apply for admission in September, 1970.

July 30, Thurs.....Latest date to withdraw from the University without petitioning for readmission.

July 31, Fri., 5:00 p.m. ..... Latest date for refund of one-half tuition and fees (except nonrefundable portion) if withdrawing from *second* four-week courses only. (First two weeks.)

July 31, Fri., 5:00 p.m. ..... Latest date for refund of one-half tuition and fees (except nonrefundable portion) if withdrawing from College of Law *second* five and one-half week session. (First fifteen days.)

Aug. 5, Wed. ..... Earliest date for full credit if withdrawing from the University for military service (six weeks instruction completed), except Law.

Aug. 13, Thurs. ..... Last day of instruction in eight-week session.

Aug. 14, Fri.,-Aug. 15, Sat. ..... Summer Session final examinations.

Aug 17, Mon. ..... August graduation date (no Commencement Exercises).

Aug 26, Wed. ..... Latest date for domestic students, or foreign students who have attended a college or university in the United States, to apply for admission or readmission in September, 1970.

GENERAL INFORMATION

To serve those who desire to pursue summer study, the University of Illinois at Urbana-Champaign is offering a comprehensive schedule of courses of eight weeks' duration, June 22 to August 15, 1970. All colleges on the Urbana campus are included in the summer program. The College of Law offers two five and one-half week sessions, from June 8 to July 15 and from July 16 to August 22. A few departments offer special intensive courses lasting only four to six weeks.

Courses in the eight-week summer session at Urbana-Champaign are selected to meet the needs of those whose employment prevents attendance during the regular school year, as well as graduate students pursuing work leading to advanced degrees, undergraduate students at the University of Illinois or elsewhere who wish to accelerate their programs of study, and other persons for whom summer study will contribute to vocational or personal goals.

Undergraduate and graduate students interested in taking any of the several independent study courses should confer with the head of the department concerned.

The resources of the University are open to students throughout the summer. They may take advantage of the extensive facilities of the University Library, the largest in any state university and third among all American universities, with more than 6,750,000 books, films, pamphlets, music scores and parts, maps, manuscripts, and some 71,874 serial titles, including periodicals and newspapers. Exchange relations are maintained with 3,168 institutions in ninety-two countries. The Urbana-Champaign collection comprises 6,006,500 items, including 4,239,839 volumes. Summer students also may profit from the museums, collections, shops, and laboratories. There are cultural and recreational opportunities — lectures, readings, concerts, theatre productions, dances, and social events.

General information concerning admission, registration procedures, fees, and board and room is given on the following pages. The courses offered in the summer session are listed alphabetically beginning on page 21.

In all undergraduate colleges at Urbana-Champaign, new courses may be added only during the first week of the summer session; courses, excepting required courses, may be dropped without penalty during the first four weeks. In case of extenuating circumstances (such as illness, or unusual financial pressure), a student may be permitted to drop a course without penalty and regardless of time if, in the judgment of the student's college, such action is warranted. In the absence of extenuating circumstances, a student who is permitted to drop a course after the deadline is assigned a grade of "E" in the course.

The Graduate College and the Colleges of Law and Veterinary Medicine determine the deadline for adding and dropping courses by students in those colleges.

PHYSICAL EXAMINATION

Each new student proposing to enroll in the University of Illinois at Urbana-Champaign for a full semester is required to present adequate evidence of satisfactory physical and mental health as determined by the Director of Health Services.

New students, except for foreign students, enrolling in the summer session are required to take the tuberculin test administered without charge by the Health Service as part of the registration procedure, but are not required to take the complete physical examination until such time as they enroll for a full semester. The tuberculin test is also administered during registration to all readmitted students who have been absent for a semester or more.

Anyone who has had a normal chest film within the past twelve months, and presents evidence thereof, is excused from the tuberculin test. Military personnel on active status are exempted from the tuberculin test; teachers presenting an x-ray report from their local public health department, dated within the previous twelve months, which declares them to be free from tuberculosis, are also exempted from the tuberculin test. Students with previous history of a positive tuberculin test are given a chest x-ray at the Health Service instead of the tuberculin skin test.

All foreign students entering in any term must pass a physical examination prior to completion of their first registration. The examination for those foreign students applying from outside the United States must be performed by the University Health Service. All students who have lived abroad for an academic year or its equivalent are required to have a complete physical examination when returning to reregister in the University.

The pre-entrance examination, except for foreign students applying from outside the United States, may be performed at the student's expense by a properly qualified doctor of medicine of his choice or by the Health Service free of charge until fifteen days prior to the registration date for the particular semester. It must be performed within the twelve-month period immediately preceding the registration date and is subject to final evaluation and approval by the Director of Health Services. Detailed explanatory material and medical forms for reporting the pre-entrance examination are forwarded to each student who receives a permit to enter in a fall or spring semester.

All high school and elementary school students coming to the campus for periods exceeding ten days are required to pass a physical examination, but are not required to take the tuberculin test.

In any particular situation where it is deemed advisable by the Health Service for public health reasons, the physical examination and tuberculin test may be required.

ADMISSION AND READMISSION

Undergraduate students enrolled on campus in the spring semester who are eligible for continuation and who wish to remain in the same college need not apply for registration in the summer session at Urbana-Champaign.

Graduate students who were registered in the Graduate College for resident study in the 1969 summer session or in extramural or on campus courses as degree or non-degree candidates in either the fall or spring semester of 1969-70 also *need not apply for readmission to the 1970 summer session.*

Applications for admission of new freshman and transfer students and for readmission of former students in the Summer Session only will be accepted on or after March 1.

Because existing academic facilities are inadequate to accommodate all qualified applicants for admission and readmission in the fall and spring semesters, acceptance in the Summer Session does not guarantee approval for continuation in a college in a following semester. New students who wish to enter in the summer session and continue in the following fall should indicate this at the time of application.

Admission and Readmission as Candidates for Degrees

All students, *graduate and undergraduate,* not previously enrolled at the University of Illinois, who are planning to register for the first time this summer, who wish to continue as degree candidates should submit applications for admission and complete credentials to the Director of Admissions and Records well in advance of registration. Applications received from graduate degree candidates after May 15 will automatically be processed as non-degree candidates, and such students must re-state their intention to be degree candidates after completing their summer session registration. Application blanks may be obtained by writing to the Office of Admissions and Records, University of Illinois, 100a Administration Building, Urbana, Illinois 61801.

Applicants for readmission who have not notified the Director of Admissions and Records in advance of registration day of their intentions to re-enter, and new students who have not received a permit to enter, should go first to the Office of Admissions and Records, 100a Administration Building. Undergraduate students report to Windows 8, 12, or 14; graduate students report to Windows 20 or 21. *They may go there at any time without respect to the alphabetical order of registration on page 10.*

Former students are considered for readmission to the college in which they were previously enrolled, if in good standing at the last attendance, unless they request transfer to the Summer Session with non-degree status. In such cases,

they must obtain releases from their former colleges. Former students not in good standing must petition for readmission to the University in their former colleges, another college, or the Summer Session.

For additional information on any matter pertaining to admission or readmission, write to the Director of Admissions and Records, University of Illinois, 100a Administration Building, Urbana, Illinois 61801.

Admission of New Undergraduate Students as Candidates for Degrees

Applications for admission to a college in the 1970 summer session from new undergraduate students, *as candidates for degrees,* will be considered only if applicants have applied and been approved for admission to a college in the fall, and have paid the required $30.00 advance deposit on their fall semester tuition and fees. This deposit is usually nonrefundable, and if the student fails to enter in the semester for which he was approved, it may not be applied on any subsequent semester. Such students will be admitted directly to the college and curriculum of their choice. Consult the Undergraduate Study catalog for information concerning requirements for admission to the various curricula, and dates for filing applications for admission to the fall or spring semester.

All applications from beginning freshmen for admission to the University as candidates for degrees are considered on the basis of a combination of high school rank and scores on prescribed admission tests, and distribution of academic subjects prescribed for the chosen curriculum. (Either the ACT or the SAT of the CEEB have been approved for admission testing purposes.)

Nonresident freshmen must rank at least in the top quarter of their high school graduating class, and nonresident transfers must present a cumulative scholastic average of at least 3.25 in terms of the University of Illinois grading system.

Admission and Readmission as Non-Degree Candidates

Applications of *undergraduate* students for admission or readmission to the Summer Session, not as candidates for degrees, should be submitted to the Office of Admissions and Records as soon as possible after March 1. They may be approved by the Director of Admissions and Records or the Summer Session Office for enrollment in the Summer Session under one of the following conditions:

1. High school graduates who qualify for admission under minimum admission requirements, but who have not been admitted for the fall semester, may be admitted to the Summer Session only as non-degree candidates. Minimum requirements for residents of Illinois include rank in the top half of their graduating class or test scores at a level which compensates for the lower rank. Nonresident applicants must rank at least in the top quarter of their class. (Students who have received permits to enter in September and who wish to enroll in the summer will register in their colleges at the beginning of the summer session.)
2. Former University of Illinois students who have not graduated from the University may register as non-degree candidates if they secure a release from the college at the University of Illinois in which they were last enrolled, and if such enrollment is approved by the Director of Admissions and Records or by the Summer Session Office.
3. Undergraduate students enrolled in other institutions may enroll in the Summer Session as non-degree candidates if they present a statement of eligibility to return to the collegiate institution last attended.
4. Persons employed as teachers who submit statements from the school authorities attesting to their employment may enroll in the Summer Session as non-degree candidates.
5. Other persons, twenty-one years of age or over, who have never attended a collegiate institution but give evidence that they possess the requisite background and ability to pursue profitably courses for which they are qualified, may enroll in the Summer Session as non-degree candidates.

Students on drop or probationary status must petition the Summer Session Office for admission as non-degree candidates. If approved, they will be admitted on probation for the 1970 summer session only.

Approval of admission or readmission as a non-degree candidate in the Summer Session in no way affects a student's future standing in a college, and satisfactory performance is no assurance of approval for continuation in the fall or at any future time. Students admitted to the Summer Session as non-degree candidates who later wish to enter one of the colleges of the University as degree candidates must seek admission in the usual manner and satisfy requirements in effect at the time of application.

All students holding a bachelor's degree must enroll in the Graduate College. *Graduate* non-degree candidates, even though continuous, must apply for readmission in the fall.

REGISTRATION

All students, new and readmitted, must present Social Security numbers, which will become their permanent identification numbers. Any student who does not have such a number should obtain one from his local Social Security Office before coming to the campus.

Eight-Week Courses

Monday, June 22, through Saturday, August 15, 1970

No course may be taken for graduate credit unless it is so designated in this time table of courses offered. The normal credit which a graduate student can earn in eight weeks is two units. In exceptional cases, two and one-half units may be carried with the approval of the adviser. Under no circumstances is a graduate student permitted to carry more than two and one-half units.

The normal full-time registration for an undergraduate student in the eight-week summer session is eight semester hours. More or less than a normal program is permitted only by authority of the dean of the student's college, or his delegated representative.

Further information concerning the regulations for degrees is contained in the *Undergraduate Study* catalog and in the catalog of the Graduate College, copies of which may be obtained by writing to the Office of Admissions and Records, 100a Administration Building, or to the Graduate College, 330 Administration Building, respectively.

ORDER OF REGISTRATION

Early Registration Period — May 27 and May 28

All participants in approved off-campus courses, College of Law students, and students employed on the registration staff will register on Wednesday, May 27, and Thursday, May 28. Members of the student registration staff must obtain preregistration permits between 9:00 a.m. and 3:00 p.m. on Wednesday, May 27, in the East Central Corridor of the Administration Building, and then report to their college offices for registration cards and academic advising. After all Registration cards are complete, students return to the East Central Corridor of the Administration Building for tuition and fee assessment. (No instructor's signatures are required on the No. 2 Program Card during this early registration period except for Aviation Flight courses.) *Payment of tuition and fees or the arrangement for payment must be made at this time.*

Regular Registration — June 22

All other students will register on Monday, June 22, including payment of tuition and fees or arrangement for deferment.

Graduate Students

New and readmitted graduate students who do not receive permits by mail should report to 100 Administration Building, Window 20, for information regarding registration.

Other graduate non-degree candidates receive their program request cards and other preliminary registration materials in 321 Administration Building.

All other graduate students may obtain the program card and other preliminary registration materials in advance of registration at the office of their adviser on or after Tuesday, June 16.

After the preliminary materials have been completed in consultation with the adviser, authorization cards for completion of registration will be distributed in the English Building (enter northwest door), in accordance with the alphabetical schedule below.

Undergraduate Students

Undergraduate students will receive registration materials at the offices of the deans of their colleges unless individually informed by special instructions that they must first go to Room 69 Administration Building.

New and former Summer Session students not assigned to a college (undergraduate non-degree candidates) will receive registration forms in 172 Armory on Monday, June 22, and after that date in 107 Coble Hall unless individually informed by special instructions that they must first go to Room 69 Administration Building.

Graduate and Undergraduate Students

Authorization cards to complete registration will be released on Monday, June 22 in accordance with the following alphabetical schedule, BUT NOT BEFORE:

A through B	11:00 a.m.	Las through M	4:00 p.m.
C through E	1:00 p.m.	N through Ro	8:00 a.m.
F through He	2:00 p.m.	Rp through Ta	9:00 a.m.
Hf through Lar	3:00 p.m.	Tb through Z	10:00 a.m.

Graduate and undergraduate registrations are completed, including payment of tuition and fees, in the Armory on June 22. After that date, they are completed in the Administration Building. No registration is considered complete until the fee card is deposited with the Business Office, regardless of whether or not the student is subject to payment of tuition and/or fees.

Late Registration

Any registration completed after 5:00 p.m. on Monday, June 22, 1970, except registrations in second four-week courses only or in second five and one-half weeks College of Law courses only, will be considered a late registration, and the student will be subject to a late registration fine of $15.00.

Second Four-Week Courses

Monday, July 20, through Saturday, August 15, 1970

Students wishing to register only in courses offered in the second four weeks of the eight-week summer session should complete their registration on or before Monday, July 20, 1970. The late registration fine of $15.00 is assessed all students registering in these courses after that date.

Directory of Registration Offices

Admissions and Records:
Graduates and Undergraduates.....100a Administration Building
Agriculture, College of.....104 Mumford Hall
Aviation, Institute of.....318 Engineering Hall or Terminal Building, Willard Airport
Commerce and Business Administration, College of.....215a David Kinley Hall
Communications, College of.....119 Gregory Hall
Education, College of.....120 Education Building
Engineering, College of.....101 Engineering Hall
Fine and Applied Arts, College of.....110 Architecture Building
Graduate College.....330 Administration Building
Law, College of.....209 Law Building
Liberal Arts and Sciences, College of.....294 Lincoln Hall
Physical Education, College of.....107 Huff Gymnasium

Summer Session.....107 Coble Hall
Veterinary Medicine, College of.....135 Veterinary Medicine Building

FEES

All fees are due and payable in full at the time of registration unless the Installment Plan is elected. An additional charge of $2.00 is made for this service. Arrangement for installment payment should be made at Station 5 in the Armory during the regular registration period. After June 22, arrangements should be made at the Business Office, 100b Administration Building.

During the registration period, applications for exemption from the University insurance should be presented at Station 3A in the Armory prior to request for tuition or fee adjustment or payment. After registration days, applications for exemption should be presented at the University Insurance Office, B-2 Coble Hall.

The fees at the Urbana-Champaign campus are as follows:

Eight-Week Summer Session

	Full Program		Partial Programs			
	Range I		Range II		Range III	
	Above 5 hours		Above 2½ to 5 hours		Above 0 to 2½ hours	
	Above 1¼ units		Above ¾ to 1¼ units		Above 0 to ¾ unit	
	Resident	*Non-resident*	*Resident*	*Non-resident*	*Resident*	*Non-resident*
Tuition (except those holding exemptions)	$62.00	$213.00	$44.00	$150.00	$26.00	$86.00
Service Fee[1]	20.00	20.00	15.00	15.00	5.00	5.00
Hospital-Medical-Surgical Fee[2, 3]	18.00	18.00	18.00	18.00	18.00	18.00
Total	$100.00	$251.00	$77.00	$183.00	$49.00	$109.00

[1] Persons on appointment for at least 25 per cent of full-time service on the academic, administrative, or permanent nonacademic staff of the University, or on the staffs of allied agencies, and persons registered *in absentia* or in courses conducted off campus are exempt from the Service Fee.
[2] Students presenting evidence of equivalent coverage may receive a waiver of the insurance portion of the Hospital-Medical-Surgical Fee upon approval of a petition submitted to the University Insurance Office not later than the final date established for full refund of fees. A signed waiver and assumption of responsibility is also required. Persons registered for thesis research *in absentia* are not assessed this fee.
[3] If hospital-medical-surgical coverage for the period between the close of the summer session and the beginning of the first semester is not desired, one-half of the fee ($9.00) will be refunded if requested in writing prior to the final date established for full refund of fees.

Twelve-Week Summer Term (Institutes) and Eleven-Week College of Law Summer Program*

	Full Program		Partial Programs			
	Range I		Range II		Range III	
	Above 8 hours		Above 4 to 8 hours		Above 0 to 4 hours	
	Above 2 units		Above 1 to 2 units		Above 0 to 1 unit	
	Resident	*Non-resident*	*Resident*	*Non-resident*	*Resident*	*Non-resident*
Tuition (except those holding exemptions)	$82.00	$284.00	$58.00	$200.00	$34.00	$114.00
Service Fee[1]	30.00	30.00	20.00	20.00	10.00	10.00
Hospital-Medical-Surgical Fee[2]	18.00	18.00	18.00	18.00	18.00	18.00
Total	$130.00	$332.00	$96.00	$238.00	$62.00	$142.00

[1] Persons on appointment for at least 25 per cent of full-time service on the academic, administrative, or permanent nonacademic staff of the University, or on the staffs of allied agencies, and persons registered *in absentia* or in courses conducted off campus are exempt from the Service Fee.
[2] Students presenting evidence of equivalent coverage may receive a waiver of the insurance portion of the Hospital-Medical-Surgical Fee upon approval of a petition submitted to the University Insurance Office not later than the final date established for full refund of fees. A signed waiver and assumption of responsibility is also required. Persons registered for thesis research *in absentia* are not assessed this fee.

* Students registered in *either one* of the five and one-half week College of Law summer sessions pay one-half of the Tuition and Service Fee established for the twelve-week term, rounded to the next higher even dollar. They are also subject to the same Hospital-Medical-Surgical Fee applying to registrants in the eight-week summer session.

Registration in Noncredit Courses

Students (except those holding exemptions) who register in noncredit courses pay tuition and fees as follows:

1. Persons who register in the summer session *on campus for doctoral* thesis research (499) only, without credit, are charged the following:
   Tuition $10.00
   Service Fee 5.00
   Hospital-Medical-Surgical Fee 18.00
2. Persons who register for doctoral thesis research (499) *in absentia* without credit or for Engineering 102 are charged only a tuition fee of. $10.00
   (Those registered *in absentia* for credit pay the regular tuition, resident or nonresident, as applicable.)
3. Persons who register in noncredit seminars, either alone or in addition to other courses ..... *No charge*
   (Regular tuition and fees which are applicable are assessed for other courses taken concurrently.)
4. Persons who register in noncredit courses only, other than thesis research and seminar, are assigned to Range III.
5. Persons who register in noncredit courses in addition to credit courses pay ..... *No additional charge*
6. University employees who register at the request of their department in noncredit courses especially established to improve the work of the employee ..... *No charge*
   (Regular tuition and fees which are applicable are assessed for other courses taken concurrently.)
7. Persons wishing to attend a campus course as a visitor only (special permit required) pay for each course a fee of $15.00

The above list of fees includes only those that are generally applicable to all students at Urbana-Champaign. Complete information concerning fees applicable only in special cases (as change of program after registration, flight instruction fee, etc.) and fee exemption regulations are contained in the University's Undergraduate Study and the Graduate College catalogs, and the current edition of *Regulations Applying to All Undergraduate Students,* or may be obtained in 132 Administration Building.

FINANCIAL AIDS

Limited amounts of scholarship and loan funds are available for students attending the University in the summer. For detailed information about scholarships, loans, and part-time student employment, write to the Director of the Office of Financial Aids, Room 109, 707 South Sixth Street, Champaign, Illinois 61820. Application blanks and information about loan funds at the University of Illinois in Urbana-Champaign, including National Defense Education Act loan funds, may be obtained from this office.

FINAL EXAMINATIONS

Eight-Week Courses

Friday, August 14, and Saturday, August 15, 1970

Final examinations must be given at the times specified unless a change is approved in advance by the Chancellor. Requests for changes should be submitted through the executive officer of the department in which the course is offered and the dean of the appropriate college. Only the dean of the student's college may approve deferment of the final examination in individual cases of *undergraduate* students.

The student's instructor is authorized to approve requests for deferment of the final examination in individual cases of *graduate* students.

The examinations for courses meeting four, five, or six days a week are *two hours* in length; those for courses meeting one, two, or three days a week are *one hour* in length. Where it is desired to give a two-hour examination in a course regularly scheduled for a one-hour examination, such as courses meeting two or three hours in each session on only one or two days, the time for the examination should be arranged by the instructor at any hour on either of the examination days that will avoid conflicts. If desired, the instructor may give part of a two-hour examination during the last instructional day of the course. In such cases, the last part of the examination should be given at the regularly scheduled time.

Examinations for courses meeting only one day a week for one or more hours, and for courses meeting at 12:00 noon or after 4:00 p.m., should be arranged by the instructor at any hour within the examination period (August 14 and 15) that will avoid conflicts.

For courses meeting two to six days a week, the schedule of examinations is as follows:

Seven o'clock Classes

Meeting four, five, or six days a week.....Friday, 7:00- 9:00 p.m.
Meeting MWF, or any two of those days.....Friday, 7:00- 8:00 p.m.
Meeting TTS, or any two of those days.....Friday, 8:00- 9:00 p.m.

Eight o'clock Classes

Meeting four, five, or six days a week.....Friday, 8:00-10:00 a.m.
Meeting MWF, or any two of those days .....Friday, 8:00- 9:00 a.m.
Meeting TTS, or any two of those days .....Friday, 9:00-10:00 a.m.

Nine o'clock Classes

Meeting four, five, or six days a week .....Friday, 1:00- 3:00 p.m.
Meeting MWF, or any two of those days .....Friday, 1:00- 2:00 p.m.
Meeting TTS, or any two of those days .....Friday, 2:00- 3:00 p.m.

Ten o'clock Classes

Meeting four, five, or six days a week .....Friday, 3:00- 5:00 p.m.
Meeting MWF, or any two of those days .....Friday, 3:00- 4:00 p.m.
Meeting TTS, or any two of those days .....Friday, 4:00- 5:00 p.m.

Eleven o'clock Classes

Meeting four, five, or six days a week.....Saturday, 3:00- 5:00 p.m.
Meeting MWF, or any two of those days .....Saturday, 3:00- 4:00 p.m.
Meeting TTS, or any two of those days .....Saturday, 4:00- 5:00 p.m.

One o'clock Classes

Meeting four, five, or six days a week.....Friday, 10:00-12:00 noon
Meeting MWF, or any two of those days .....Friday, 10:00-11:00 a.m.
Meeting TTS, or any two of those days.....Friday, 11:00-12:00 noon

Two o'clock Classes

Meeting four, five, or six days a week.....Saturday, 8:00-10:00 a.m.
Meeting MWF, or any two of those days .....Saturday, 8:00- 9:00 a.m.
Meeting TTS, or any two of those days.....Saturday, 9:00-10:00 a.m.

Three o'clock Classes

Meeting four, five, or six days a week .....Saturday, 10:00-12:00 noon
Meeting MWF, or any two of those days .....Saturday, 10:00-11:00 a.m.
Meeting TTS, or any two of those days .....Saturday, 11:00-12:00 noon

Four o'clock Classes

Meeting four, five, or six days a week.....Saturday, 1:00- 3:00 p.m.
Meeting MWF, or any two of those days.....Saturday, 1:00- 2:00 p.m.
Meeting TTS, or any two of those days.....Saturday, 2:00- 3:00 p.m.

Note: For a course so scheduled that the final examination may be given in more than one period, the earliest time in the examination schedule must be chosen. For example, for a course regularly meeting from 1:00 to 3:00 p.m. on Monday, Wednesday, and Friday, or any two of those days, the examination

should be scheduled for Friday, 10:00 to 11:00 a.m., not Saturday, 8:00 to 9:00 a.m.

Students in courses regularly meeting on a half-hour schedule, e.g., 10:30 a.m. to 12:00 noon on Monday, Tuesday, Thursday, and Friday, should be given the examination according to the full hour sequence in which they fall, i.e., 11:00 a.m., with the final examination scheduled from 3:00 to 5:00 p.m. on Saturday.

Multiple instructional courses including at least two lectures per week at the same hour must schedule the final examination according to the sequence in which the lectures occur, irrespective of the times of discussion or laboratory periods.

Examinations in courses combining one lecture with *two or more* discussion and/or laboratory periods at the same hour should be scheduled according to the sequence in which the discussion and/or laboratory periods fall, irrespective of the lecture hour.

Examinations in courses which include combinations of one meeting each of lecture, discussion, and laboratory, or any two of these, at different hours must be arranged by the instructors concerned within the established examination period.

Evening examinations are not authorized except for classes regularly meeting through the summer session at 7:00 a.m. The evening hours for these examinations are specified on page 13.

STUDENT SERVICES

The student in residence at a comprehensive modern university belongs to a unique community dedicated to the advancement of knowledge. It is also a community in a more usual sense of the term. With a summer enrollment of more than eleven thousand students, plus necessary faculty and staff, the Urbana-Champaign campus is a city, providing the entire range of services vital to comfortable and orderly daily life. There are facilities for housing, food service, medical attention, maintenance of records, traffic control, and protection of life and property.

At the same time, these services are not entirely "secular." They are administered by an academic institution, not a city government. They are meant to support academic purposes, and to be consistent with an academic atmosphere. Such support is most clearly seen in the variety of services devoted not merely to the general needs of men and women, but to the special needs of men and women who are also students. The various divisions administered by the Dean of Students, together with the Office of Admissions and Records, the Student Counseling Service, and the University Health Service, provide, for example, general advising and orientation programs, professional counseling, testing and remedial programs, assistance with financial problems, and professional job placement.

Undergraduates are urged to investigate, and to use, the entire range of student services available to make their academic work more effective and campus life more comfortable.

ROOM AND BOARD

During the eight-week summer session, housing and food service accommodations in University residence halls will be available in the Illinois Street Residence Halls. All facilities other than the living units are operated on a coeducational basis with dining, lounge, recreation, library, and office facilities being shared by the men and women residents. All shared facilities and student rooms are air conditioned. Room and board rates for the entire eight-week session are as follows:

	20 Meals per Week	*15 Meals per Week*
Single Room	$264.00	$235.00
Double Room	244.00	215.00

Arrangements may also be made for rooms without board in the Illinois Street Residence Halls. Rates for the entire eight-week session are as follows:

Single Room	$127.00
Double Room	107.00

All prices quoted are subject to change.

Some space in other residence halls is available for the use of persons attending University-sponsored short courses or conferences during the summer period. The charge for housing accommodations is approximately $3.25 to $4.50 a person per night and the daily charge for meals is $3.90. This does not include tax. For information on this type of housing, write to the Conference Coordinator, 420 Student Services Building, Champaign, Illinois 61820.

Applications for residence may be obtained from the Housing Division, 420 Student Services Building.

Rooms, and in some cases, room and board, are also available at privately operated housing units near the campus. Facilities in housing of this type are listed in the Housing Division Office. Room lists and additional information may be obtained by writing the Housing Divison.

ILLINI UNION

The Illini Union is the community center for the students, faculty, staff, and alumni on the Urbana campus of the University of Illinois. In conjunction with other student organizations, the Illini Union sponsors a broad program of social, cultural, and recreational activities for the students. Among its many facilities are various food service units consisting of a cafeteria, snack bar, dining room, and several banquet rooms. The various lounges are meeting places for students and faculty between classes and at other free times. The Browsing Room contains the latest fiction, biography, and other books for general reading as well as a record-lending library. The Illini Union also houses the Book Center, a bookstore which offers high quality paperback editions of American and foreign publications, hard cover University of Illinois Press publications, and some periodicals of limited circulation.

Programs of recorded classical music are held under the direction of a student committee. Recreational facilities include bowling, billiard tables, television, and rooms for games. Dances are scheduled from time to time during the summer. All students are entitled to the full use of the facilities of the Illini Union.

The Illini Union also sponsors a movie program consisting of evening presentations of popular and foreign films at a nominal charge.

ADDITIONAL INFORMATION

For additional information concerning attendance in the summer session at the University of Illinois, write to:

Director of Admissions and Records
University of Illinois
100a Administration Building
Urbana, Illinois 61801

UNIQUE PROGRAMS AT CIC INSTITUTIONS

SUMMER 1970

The Committee on Institutional Cooperation (CIC) is an organization established in 1958 to provide for voluntary cooperative arrangements among the Big Ten Universities and the University of Chicago. A primary objective of CIC is to enable the student to obtain the best education available throughout the eleven-university complex.

The CIC annually sponsors a number of outstanding and unique summer programs. For the summer of 1970, the following courses are considered by the CIC Summer Session Committee to be unique offerings of the cooperating institutions. This list is only descriptive and is provided to assist students in selecting a summer program in an area which otherwise may be limited in the summer. Interested persons are advised to write the dean or director of the respective institution for complete official information.

Courses designated graduate are open only to graduate students. Those not so restricted are open to both undergraduate and graduate students.

UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN, ILLINOIS

Geography 478 — Advanced Field Geography. A graduate course in the theory and application of geographical field techniques to the analysis of an area. The summer program for 1970 will focus on a local community's perception of its relict-nineteenth century landscape as a resource base for economic development. The historic preservation of a total landscape will be explored in the context of current architectural restoration activity, recreational land use planning, and environmental perception theory. Parke County, Indiana has tentatively been selected as the study area. Prerequisite: Consent of instructors, Professor Fred W. Foster or Professor John A. Jakle, Department of Geography, University of Illinois, Urbana 61801. Students from architectural history, urban and regional planning, recreation, and the social sciences as well as geography are welcome. June 23 to August 1, 1970.

Geology 215 — Field Geology. Field course to be conducted in the Big Horn Mountains of Wyoming. Introduction to field techniques, geologic mapping, and field training in stratigraphy, structures, and geomorphology. June 22 through August 15, 1970. Advance registration required.

Library Science 310 — Typographic Disciplines of the Book. Same as English 392 and Journalism 310. The study of the book as a manufactured object, with emphasis upon practices and methods in continuous use from the Renaissance to the present, including type faces, paper, binding, and illustration. Extensive practicum in the typographic laboratory. Prerequisite: Consent of instructor, Robert Chapdu. June 22 to August 15, 1970.

Library Science E439 — Medical Literature and Reference Work. Considers representative reference and bibliographical aids in medical sciences. Problems provide experience with typical medical reference sources. (Taught at the University of Illinois Medical Center, University of Illinois at Chicago Circle.) Prerequisite: Consent of instructor, Clara L. Meckel. June 22 to July 24, 1970.

Library Science 450Y — Seminar on Teaching Cataloging. Designed for present teachers of cataloging. It will concern itself with the meaning and importance of descriptive cataloging as a bibliographical system, and the methodology of teaching this subject matter. It will also deal with the theoretical considerations underlying cataloging rules, the new code, and other aspects of the subject. Prerequisite: Consent of instructor, Seymour Lubetzky. July 20 to August 15, 1970.

INDIANA UNIVERSITY, BLOOMINGTON, INDIANA

African Folklore Conference. July 16-18 (0 credit).

African Folklore, F387. Folklore as an aspect of African culture, types of African folklore, African folklore traits, functions of folklore in tribal societies and

emergent nations, the influence of folklore on contemporary African literature, and the use of folklore in reconstructing African history. July 16-August 7 (3 credits).

Geology, G429. Field Geology in the Rocky Mountains (Cardwell, Montana). Advance registration required. July 26-August 29 (6 credits) and June 13-August 1 (8 credits).

Geology, G575. Geology of Shallow Marine Environments (Florida Keys). Advance registration required. June 8-July 12 (5 credits).

Geometric Optics I, V321. Optics of lenses, prisms, and mirrors; emphasis on application in visual science. June 16-August 7 (4 credits).

Graduate Library, L529. Librarianship and Bibliography of Africa South of the Sahara. Selection, acquisition, and organization of literature for African studies. June 16-August 7 (4 credits).

UNIVERSITY OF IOWA, IOWA CITY, IOWA

Translation Workshop 8:488. For those interested in the translation of poetry and fiction into English of high literary merit. Staff.

Iowa Lakeside Laboratory. Course offering in Field Biology, Helminthology, Fresh-water Algae, Aquatic Ecology, Field Entomology. Professor Richard V. Bovbjerg. Two 5 week summer sessions.

Field Seminar in Geography. Jointly sponsored by the Departments of Geography at Iowa, Minnesota, and Wisconsin. Guided experience in the formulation and study of individual field problems in one or two branches of geography. Graduate. Neil Salisbury. Three weeks, August-September.

Geology Field Techniques 12:113. Six-week geology field course, Park City, Utah. Training in the description and mapping of rock units and geologic structures in the Wasatch and Uinta Mountains. Professional level course. Professor Richard Hoppin. Six weeks during June and July.

The Religious and Democratic Traditions of the United States 16:199 or 32:169. Historical examination of what is commonly called "the church-state question," based primarily on an analysis of selected Supreme Court decisions on matters pertaining to religion. Professor Sidney E. Mead.

MICHIGAN STATE UNIVERSITY, EAST LANSING, MICHIGAN

June 24 to September 4, 1970

Summer Institute of Glaciological Sciences. Held on and near the Juneau Icefield of coastal Alaska, the Institute offers seven weeks of intensive field study in the glaciological and arctic sciences. Graduate and undergraduate.

University Summer Art School at Leland, Michigan. Five weeks of concentrated painting experience in a commercial fishing center where the docks, boats and fishermen provide excellent material for the painter. Graduate and undergraduate.

The Kellogg Biological Station at Gull Lake, Michigan. Ten-week session of instruction in botany, entomology, zoology, parasitology, microbiology and geography. Emphasis on field study. Graduate and undergraduate.

UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINNESOTA

Public Health 231-232. Ground water development with field work. Development of ground water sources for public water supplies. Graduate. Professors Richard G. Bond, Rexford D. Singer. June 15-August 21.

Public Health 138. Hospital Engineering Problems. Application of environmental engineering, sanitation, and maintenance principles and techniques relative to planning, administration, and operation of hospitals. Graduate. Professor Richard G. Bond. July 20-August 21.

Lake Itasca Biology Session. Variety of courses designed to make use of ecological area with prairies, hardwoods, and coniferous habitats as well as aquatic

habitats. Graduate and undergraduate. Professor William Marshall. June-August.

Inter-University Rotating Summer Program in East Asian Studies. Intensive study in East Asian languages. In cooperation with the CIC. Brochures available upon request. Director Richard Mather. June 15-August 21.

Field Geology 100 (Geology Field Camp). Measurement of stratographic sections; study of fossils and igneous, sedimentary, and metamorphic rocks. Geological surveying on aerial photographs and topographic maps. A five-week field camp held in the Wasatch mountains near Park City, Utah, in cooperation with the CIC. Director, Robert Bright. June 15-July 25.

Field Application of Hydrogeological Methods. Actual performance of hydrogeological field investigation, exploration, development and testing of aquifers. A three week field camp held near Cloquet, Minnesota. In cooperation with the U. of Wisconsin. Graduate and undergraduate. Olaf Pfannkuch, Dept. of Geology. August 23-September 12.

NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS

Anthropology 403-C21. Archeological Field Methods. (8 wks.-1. June 22-Aug. 15.)

Anthropology 403-C22. Archeological Theory and Research Design. (8 wks.-1. June 22-Aug. 15.)

Students must take *both* C21 and C22 simultaneously.

Archeological Field School to be conducted at the Macaupin Site in Southern Illinois. Students will live and work near Hardin, Illinois. Intensive training and field work, strategy, and methods. By consent of instructor only. Mr. Struever.

Sociology 471-C01, C15. Institute on Urbanization and Industrialization. (6 wks.-1-1.) This institute will be of six weeks duration divided into two three-week portions. Each three-week session will have a different focus; 471-C01 (June 23-July 10) will be devoted to the study of the nature of urban social structure, and culture and systems of urban differentiation and their consequences; and 471-C15 (July 13-July 30) will deal with the structure and culture of modern industry, their consequences for status and class organization in the work plant and the wider community.

The Institute will meet for two hours a day, five days a week. Students may register for either the entire six-week Institute (2 courses), or for one of the three-week sessions (1 course). MTWThF 10:00-12:00. Mr. Armer and Mr. Carns.

Sociology 471-C02, C14. Institute on Social Control and Ideology. (6 wks.-1-1.) The Institute will center on the sociological analysis of social control and ideology. Means and mechanisms of social control are grounded within ideologies, and frequently, other sets of ideologies develop in competition with the prevailing one. These ideologies and their attached means of social control are related to deviant groups, oppressed groups, and social movements. The institute is designed to focus on the processes by which groups develop and maintain ideology, and on the competition of ideology, and on the competition of ideologies in a pluralistic society. Other topics to be covered include: processes of conversion; definitions of deviance; stratifications of group ideology; commitment of members; and the "youth" revolution.

The Institute will meet for two hours a day, five days a week. Students may register for either the entire six-week Institute (2 courses), or for one of the three-week sessions (1 course). MTWThF 2:00-4:00. Mr. Beck and Mr. Redlinger.

OHIO STATE UNIVERSITY, COLUMBUS, OHIO

Agronomy 594 — Soil Science Special Section for Science Teachers. The physical, chemical, and biological properties of soils, with emphasis on the use of soil samples to illustrate biological, physical, and chemical principles in various science courses. Open for both undergraduate and graduate credit to science teach-

ers in elementary, junior high, and senior schools. The method of instruction is audio-tutorial. Five hours credit. Offered in conjunction with the Summer Institute for Teachers of Science. Professor: Dr. Frank L. Hines. June 17-August 8.

Agronomy 870 — Soil-Plant Relationships. Discussion of the scientific principles and procedures for increasing the efficiency of utilization of soil-water-plant resources in world food production by internationally renowned plant and soil scientists. 5 2-hour lecture-discussion periods and individual conference per week. 3 hours credit. This program is cooperatively sponsored by Departments of Agronomy and Horticulture, USAID, and The Rockefeller Foundation. E. O. McLean and F. L. Hines. The schedule of speakers is: Dr. R. W. Richardson, Jr., Associate Director, The Rockefeller Foundation, Agricultural Sciences, New York; Dr. E. J. Wellhausen, Director General, International Maize and Wheat Improvement Center, Mexico; Dr. R. Bradfield, Special Consultant in Agriculture, Rockefeller Foundation, Philippines; Professor E. W. Russell, Professor, Department of Soil Science, The University, Reading, England.

Biology of Lake Erie. The Franz Theodore Stone Laboratory, Put-in-Bay, Lake Erie, Ohio. Course offerings in aquatic biology dealing with the ecology of (a) physical and chemical factors and, (b) biota of fresh water Lake Erie. Dean, College of Biological Sciences. June 23-July 28 and July 29-Sept. 5.

CIC Biometeorology Graduate Program. Field courses in biometeorology conducted at Biological Field Station, South Bass Island, Lake Erie, Ohio. Dean, College of Biological Sciences. June 23-July 28 and July 29-Sept. 5.

Linguistics Institute. Basic courses in descriptive, historical, applied, and mathematical linguistics. Advanced offerings on theory of syntactic, phonological, and semantic analysis. Seminars for advanced graduate students. Dean, College of Humanities. June 23-August 14.

CIC Cooperative Summer Slavic Institute. This program is intended primarily for students of Slavic languages and literatures and other disciplines dealing with the Slavic and East European area. Language offerings will include Russian, Polish, Serbo-Croatian, Byelorussian, Lithuanian, Estonian, Latvian, Finnish, and Rumanian. Dean, College of Humanities. June 23-August 14.

Theater: Fourth International Theater Research Tour Seminar. Advanced research in the development of the theater art of the West. Approximately 5 weeks in England and 5 weeks on the Continent with itinerary to be announced later. Professor John C. Morrow. Approximately June 17 to August 30.

LISTING OF COURSES

The following time table of summer courses offered by the University is subject to whatever changes may prove necessary at registration time. Notices of all changes in time or place of meeting of classes will be supplied to advisers for checking program cards during registration. Names of instructors are listed subject to their acceptance of appointment for summer service.

Arrangement

The arrangement of subjects in this time table is alphabetical. The courses offered in each subject are listed numerically with headings to indicate the students for whom they are designed. Courses for undergraduates (designed for freshmen and sophomores) are numbered 100 to 199; for advanced undergraduates (designed for juniors and seniors), 200 to 299; for advanced undergraduates and graduates (junior, senior, or graduate standing required), 300 to 399; for graduates, 400 to 499. Following the title of each course is a statement of the requirements, if any, for admission to the course.

Classification of undergraduate students for registration purposes is based on the following scale, including physical education and military credit: freshman standing, 0 to 29 hours; sophomore standing, 30 to 59 hours; junior standing, 60 to 89 hours; senior standing, 90 or more hours.

Class periods for each course are indicated by numerals for the hours of the day and by letters for the days of the week. For example, "8-10 MWF" indicates that the class period begins at 8:00 a.m. and continues for two hours on Monday, Wednesday, and Friday; while "11 TTS" means that the class period begins at 11:00 a.m. and continues for fifty minutes on Tuesday, Thursday, and Saturday. The place of meeting of each class is shown by the number of the room and the name of the building.

Credit

Credit is counted in semester hours for undergraduates and in units for graduates, as shown in the description of each course.

Some courses have variable credit, as 3 to 5 hours or ½ to 2 units, and in registering for a course with variable credit each student puts on his program card the number of hours or units for which he intends to take the course.

Buildings

University buildings are designated by the following abbreviations:

Admin.....Administration Building
Aero Lab...Aeronautical Engineering Laboratory
Agr Eng.....Agricultural Engineering Building
AH.....Altgeld Hall
An Gen.....Animal Genetics Building
Arch.....Architecture Building
Art Sculpt.....Art-Sculpture Building
ASL.....Animal Sciences Laboratory
Bev Hall.....Bevier Hall
BRL.....Burnsides Research Laboratory
Bur Hall.....Burrill Hall
CA.....Chemistry Annex
CD.....Child Development Laboratory
CEB.....Civil Engineering Building
Cer.....Ceramics Building
Col Wolfe.....Colonel Wolfe School
Com W..Commerce and Business Administration Building (West)
DH.....Davenport Hall
DKH.....David Kinley Hall
DMB.....Dairy Manufactures Building
EB.....English Building
EC.....East Chemistry Building
Educ.....Education Building
EE Annex.....Electrical Engineering Annex
EEB.....Electrical Engineering Building
EH.....Engineering Hall
EPGB.....Educational Projects and Guidance Building
ERL.....Engineering Research Laboratory
FAB.....Fine and Applied Arts Building
Flor.....Floriculture Building
Freer Gym.....Freer Gymnasium
FSL.....Forest Science Laboratory
GH.....Gregory Hall
HA.....Hill Annex
HFL.....Horticulture Field Laboratory
HG.....Huff Gymnasium
HH.....Harker Hall
Hyd Eng Lab..Hydraulic Engineering Laboratory
IH.....Illini Hall
IU.....Illini Union
KM.....Krannert Art Museum
Kran Perf...Krannert Center for the Performing Arts
Law.....Law Building
LH.....Lincoln Hall
Lib.....Library
LIR....Labor and Industrial Relations Building
MEB.....Mechanical Engineering Building
MEL.....Mechanical Engineering Laboratory
MH.....Mumford Hall
MMB.....Metallurgy and Mining Building
MOG.....Men's Old Gymnasium
Mor Hall.....Morrill Hall
Mum House.....Mumford House
NEL.....Nuclear Engineering Laboratory
NHB.....Natural History Building
NL.....Noyes Laboratory of Chemistry
Nuc Reac Lab.....Nuclear Reactor Laboratory
Observ.....Observatory
PA.....Practice Annex
PB.....Physics Building
Psych Bldg.....Psychology Building
Rehab Center..Rehabilitation-Education Center
SA.....String Annex
SH.....Stiven House
SMH.....Smith Music Hall
SP.....Stock Judging Pavilion
Sp Clinic.....Speech Clinic
Surv Bldg.....Surveying Building
TA.....Theory Annex
TB.....Transportation Building
TH.....Turner Hall
TL.....Talbot Laboratory
UHS.....University High School
VCLA.....Veterinary Clinic, Large Animal
VCSA.....Veterinary Clinic, Small Animal
Veg Crops.....Vegetable Crops Building
VM.....Veterinary Medicine Building

DEPARTMENT OFFICE 360 COM W

COURSES FOR UNDERGRADUATES

ACCY 101 PRINCIPLES OF ACCOUNTING I.
3 HOURS
00019 LECT-DISC B 9 MTUWTHFS 209A D H

ACCY 105 PRINCIPLES OF ACCOUNTING II.
PREREQUISITE: ACCY. 101.
3 HOURS
00027 LECT-DISC D 11 MTUWTHFS 6 COM W

ACCY 108 INTERMEDIATE ACCOUNTING.
PREREQUISITE: ONE YEAR OF ACCOUNTANCY, SOPHOMORE STANDING.
3 HOURS
00035 LECT-DISC A 8 MTUWTHFS 11 COM W

ACCY 166 COST ACCOUNTING.
PREREQUISITE: ACCY. 105.
3 HOURS
00043 LECT-DISC D 11 MTUWTHFS 11 COM W

COURSES FOR ADVANCED UNDERGRADUATES

ACCY 201 FUNDAMENTALS OF ACCOUNTING.
FOR NON-COMMERCE STUDENTS ONLY.
3 HOURS
00051 LECT-DISC D 11 MTUWTHFS 245 COM W

ACCY 274 BASIC FEDERAL INCOME TAX ACCOUNTING.
PREREQUISITE: ACCY. 108.
3 HOURS
00060 LECT-DISC C 10 MTUWTHFS 11 COM W

ACCY 294 SENIOR RESEARCH.
PREREQUISITE: CUMULATIVE GRADE POINT AVERAGE OF 4.0 OR HONORS IN JUNIOR YEAR OR CONSENT OF INSTRUCTOR. SENIOR STANDING.
2 TO 4 HOURS
00078 CONF ARR

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

ACCY 308 ADVANCED ACCOUNTING.
PREREQUISITE: ACCY. 106 OR 166, AND 108, AN AVERAGE OR C OR BETTER IN PRECEDING COURSES IN ACCOUNTANCY.
3 HOURS OR 3/4 UNIT
00086 LECT-DISC B 9 MTUWTHFS 11 COM W

ACCY 325 ACCOUNTING SYSTEM DESIGN.
PREREQUISITE: ACCY. 308.
3 HOURS OR 3/4 UNIT
00094 LECT-DISC B 9 MTUWTHFS 9 PSYCH BLDG

ACCY 371 AUDITING.
PREREQUISITE: ACCY. 308.
3 HOURS OR 3/4 UNIT
00107 LECT-DISC C 10-1130 MTUWTH 321 G H

ACCY 372 AUDITING PROBLEMS AND CASES.
PREREQUISITE: ACCY. 371.
3 HOURS OR 3/4 UNIT
00115 LECT-DISC A 8-930 MTUWTH 321 G H

ACCY 377 ADVANCED PROBLEMS.
PREREQUISITE: SENIOR STANDING, CREDIT OR REGISTRATION IN ACCY. 371.
3 HOURS OR 1 UNIT
00123 LECT-DISC C 10 MTUWTHFS 6 COM W

COURSES FOR GRADUATES

ACCY 462 MANAGEMENT ACCOUNTING.
PREREQUISITE: AN UNDERGRADUATE COURSE IN MANAGEMENT ACCOUNTING. THE STUDENT'S BACKGROUND IN STATISTICS AND MATHEMATICS SHOULD BE EQUIVALENT TO THE UNDERGRADUATE REQUIREMENTS OF THE U OF I COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION IN THESE AREAS.
1 UNIT
00131 LECT-DISC C 10-12 M TH 120 COM W

ACCY 466 COST ACCOUNTING THEORY AND ANALYSIS.
1 UNIT
00140 LECT-DISC A 8-10 M TH 120 COM W

ACCY 473 THE THEORY OF ACCOUNTING SYSTEM DESIGN.
1 UNIT
00158 LECT-DISC L 8-10 TU F 120 COM W

ACCY 481 CONCEPTS AND PRINCIPLES.
1 UNIT
00166 LECT-DISC R 1-3 TU F 120 COM W

ACCY 483 INCOME DETERMINATION.
1 UNIT
00174 LECT-DISC E 1-3 M TH 120 COM W

ACCY 493 SPECIAL RESEARCH PROBLEMS.
1/4 TO 2 UNITS
00182 CONF ARR

ACCY 499 THESIS RESEARCH.
0 TO 2 UNITS
00191 DISC ARR

ACCY 594 METHODS AND PRACTICES IN PROFESSIONAL RESEARCH.
PREREQUISITE: CANDIDACY FOR M.A.S. DEGREE.
1 UNIT
00203 LECT-DISC N 10-12 TU F 120 COM W

ADVERTISING

DEPARTMENT OFFICE 103 G H

COURSES FOR ADVANCED UNDERGRADUATES

ADV 281 INTRODUCTION TO ADVERTISING.
3 HOURS
00211 LECT-DISC B 9 MTUWTHF 43 G H BARBAN
B 1 M 43 G H

ADV 288 SALES WRITING.
SAME AS RHET. 271.
PREREQUISITE: RHET. 102 OR EQUIVALENT.
2 HOURS
00220 LECT-DISC C 10 MTUWTH 166 COM W MAGUIRE

ADV 291 SPECIAL PROBLEMS.
PREREQUISITE: CONSENT OF HEAD OF DEPARTMENT.
2 OR 3 HOURS
00238 CONF ARR STAFF

COURSES FOR GRADUATES

ADV 482 RESEARCH METHODS IN ADVERTISING AND COMMUNICATIONS.
SAME AS COMM. 482.
PREREQUISITE: A BASIC COURSE IN STATISTICAL METHODS.
1 UNIT

00246	LECT-DISC	E	1-3	M W	123	G H	DUNN

ADV 484 ADVERTISING AND CONSUMER BEHAVIOR.
1 UNIT

00254	LECT-DISC	C	10-12	M W	123	G H	BARBAN

ADV 490 SPECIAL TOPICS IN ADVERTISING.
PREREQUISITE: CONSENT OF HEAD OF DEPARTMENT.
1/2 OR 1 UNIT

00262	CONF		ARR	STAFF

ADV 499 THESIS RESEARCH.
PREREQUISITE: GRADUATE STANDING IN ADVERTISING.
1 OR 2 UNITS

00271	CONF		ARR	STAFF

AERONAUTICAL AND ASTRONAUTICAL ENGINEERING

DEPARTMENT OFFICE 101 T B

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

A A E 391 SPECIAL PROBLEMS.
PREREQUISITE: SENIOR STANDING IN ENGINEERING, CONSENT OF INSTRUCTOR.
2 TO 4 HOURS, OR 1/2 OR 1 UNIT

00289	CONF		ARR	

COURSES FOR GRADUATES

A A E 493 SPECIAL PROBLEMS.
1 OR 2 UNITS

00297	CONF		ARR	

A A E 499 THESIS RESEARCH.
0 TO 2 UNITS

00300	CONF	A	ARR	STAFF
00318	CONF	CEB	ARR	BOND
00326	CONF	HOB	ARR	BARTHEL
00334	CONF	JAB	ARR	BENNETT
00342	CONF	BLH	ARR	HICKS
00351	CONF	HHH	ARR	HILTON
00369	CONF	HWK	ARR	KNOEBEL
00377	CONF	HK	ARR	KRIER
00385	CONF	YKL	ARR	LIN
00393	CONF	RWM	ARR	MCCLOY
00406	CONF	AIO	ARR	ORMSBEE
00414	CONF	JEP	ARR	PRUSSING
00422	CONF	RRR	ARR	REGL
00431	CONF	SNR	ARR	ROSCOE
00449	CONF	LHS	ARR	SENTMAN
00457	CONF	KRS	ARR	SIVIER
00465	CONF	RAS	ARR	STREHLOW
00473	CONF	HSS	ARR	STILLWELL
00481	CONF	WFV	ARR	VANTASSELL
00490	CONF	SMY	ARR	YEN
00502	CONF	ARZ	ARR	ZAK

AGRICULTURAL ECONOMICS
INCLUDING RURAL SOCIOLOGY

DEPARTMENT OFFICE 305 M H

COURSES FOR UNDERGRADUATES

AG EC 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS

00511	CONF		ARR	

COURSES FOR ADVANCED UNDERGRADUATES

AG EC 200 PROBLEMS IN AGRICULTURAL ECONOMICS.
PREREQUISITE: MINIMUM GRADE-POINT AVERAGE 3.5, NOT OPEN TO STUDENTS ON PROBATION, CONSENT OF INSTRUCTOR AND HEAD OF DEPARTMENT. SPECIFIC APPROVAL OF THE ASSOCIATE DEAN IS REQUIRED IN ADVANCE OF REGISTRATION FOR A SECOND AND/OR THIRD SPECIAL PROBLEM COURSE.
1 TO 5 HOURS
WORK MAY BE TAKEN IN THE FOLLOWING SUBJECTS:
A--AGRICULTURAL MARKETING AND PRICES
B--STATISTICAL ANALYSIS
C--FARM MANAGEMENT AND LAND ECONOMICS
D--RURAL ORGANIZATION
E--AGRICULTURAL LAW
F--AGRICULTURAL POLICY AND ECONOMIC DEVELOPMENT
G--AGRICULTURAL FINANCE
*SECTION &B IS OPEN TO JAMES SCHOLARS AND OTHER STUDENTS HAVING A MINIMUM GRADE POINT AVERAGE OF 4.0 AND MAY BE TAKEN IN CONJUNCTION WITH OTHER COURSES IN THIS DEPARTMENT SUBJECT TO APPROVAL OF INSTRUCTOR.

00529	CONF	A	ARR
00537	CONF	B	ARR
00596	CONF	*&B	ARR
00545	CONF	C	ARR
00553	CONF	D	ARR
00561	CONF	E	ARR
00570	CONF	F	ARR
005B8	CONF	G	ARR

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

AG EC 325 ADVANCED FARM MANAGEMENT.
PREREQUISITE: AG. EC. 220.
3 HOURS, OR 3/4 OR 1 UNIT
*PLUS ONE ADDITIONAL HOUR TO BE ARRANGED.

00609	LECT-DISC	B	*9	MTUWTHF	316S M H	MUELLER SCOTT

AG EC 332 LIVESTOCK MARKETING.
SAME AS AN. S. 332.
PREREQUISITE: ECON. 10B, AG. EC. 230 OR AN ELEMENTARY MARKETING COURSE.
FIELD TRIP, ESTIMATED EXPENSE, $15.00.
3 HOURS, OR 3/4 OR 1 UNIT
FIRST FOUR WEEKS.
*PLUS TWO ADDITIONAL HOURS TO BE ARRANGED.

00617	LECT-DISC		*10-12	MTUWTHF	W115 T H	BROADBENT

COURSES FOR GRADUATES

AG EC 491 SEMINAR AND SPECIAL TOPICS.
ALL GRADUATE STUDENTS MAJORING IN AGRICULTURAL ECONOMICS MUST REGISTER IN THE NON-CREDIT SECTION OF THIS COURSE.
0 TO 2 UNITS
*SECTION A IS FOR STUDENTS NOT ENROLLED FOR CREDIT.
*SECTION B IS FOR STUDENTS RECEIVING INDIVIDUAL INSTRUCTION.
*SECTION C IS FOR STUDENTS RECEIVING GROUP INSTRUCTION.

00625	LECT-DISC	*A	ARR	STAFF
00633	CONF	*B	ARR	STAFF
00641	LECT-DISC	*C	ARR	STAFF

AG EC 499 THESIS RESEARCH.
0 TO 2 UNITS
00650 CONF ARR STAFF

RURAL SOCIOLOGY
DEPARTMENT OF AGRICULTURAL ECONOMICS.

COURSES FOR UNDERGRADUATES

R SOC 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS
00668 CONF ARR

COURSES FOR GRADUATES

R SOC 477 SEMINAR ON COMMUNITY ORGANIZATION.
SAME AS SOC. 477.
PREREQUISITE: SOC. 275; OR CONSENT OF INSTRUCTOR.
1 UNIT
FIRST FOUR WEEKS.
00676 LECT-DISC B 9-12 MTUWTH 405 M H SCHWEITZER

R SOC 487 SPECIAL PROBLEMS IN RURAL SOCIOLOGY.
SAME AS SOC. 487.
PREREQUISITE: ONE UNIT OF GRADUATE CREDIT IN SOCIOLOGY,
CONSENT OF INSTRUCTOR.
1/2 OR 1 UNIT
00684 CONF ARR STAFF

AGRICULTURAL ENGINEERING
INCLUDING AGRICULTURAL MECHANIZATION

DEPARTMENT OFFICE 245 AGR ENG

COURSES FOR ADVANCED UNDERGRADUATES

AG E 296 HONORS PROJECT.
PREREQUISITE: JAMES SCHOLAR IN ENGINEERING; CONSENT OF INSTRUCTOR.
1 TO 4 HOURS
00692 CONF ARR STAFF

AG E 299 UNDERGRADUATE THESIS.
PREREQUISITE: AG. E. 298 AND SENIOR STANDING IN ENGINEERING.
2 TO 4 HOURS
00705 CONF A ARR STAFF
00713 CONF &B ARR STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

AG E 396 SPECIAL PROBLEMS.
PREREQUISITE: SENIOR STANDING IN ENGINEERING.
1 TO 4 HOURS, OR 1/4 TO 1 UNIT
00721 CONF ARR STAFF

COURSES FOR GRADUATES

AG E 496 PROBLEMS IN AGRICULTURAL ENGINEERING.
PREREQUISITE: CONSENT OF HEAD OF DEPARTMENT.
1 UNIT
00730 CONF ARR STAFF

AG E 499 THESIS RESEARCH.
0 TO 4 UNITS

00748	CONF	B1	ARR	BEATY
00756	CONF	B2	ARR	BUTLER
00764	CONF	C	ARR	CURTIS
00772	CONF	D	ARR	DAY
00781	CONF	H1	ARR	HALL
00799	CONF	H2	ARR	HANSEN
00801	CONF	H3	ARR	HUNT
00810	CONF	J	ARR	JONES
00828	CONF	L1	ARR	LANHAM
00836	CONF	L2	ARR	LEMBKE
00844	CONF	N	ARR	NAVE
00852	CONF	O	ARR	OLVER
00861	CONF	P	ARR	PUCKETT
00879	CONF	S1	ARR	SIEMENS
00887	CONF	S2	ARR	SHOVE
00895	CONF	W	ARR	WEBER
00908	CONF	Y	ARR	YOERGER

AGRICULTURAL MECHANIZATION
DEPARTMENT OF AGRICULTURAL ENGINEERING

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

AG M 300 SPECIAL PROBLEMS.
PREREQUISITE: MINIMUM GRADE POINT AVERAGE 3.5, NOT OPEN TO STUDENTS ON PROBATION, SENIOR STANDING, CONSENT OF INSTRUCTOR AND HEAD OF DEPARTMENT. SPECIFIC APPROVAL OF THE ASSOCIATE DEAN IS REQUIRED IN ADVANCE OF REGISTRATION FOR A SECOND SPECIAL PROBLEMS COURSE.
1 TO 4 HOURS, OR 1/4 TO 1 UNIT
*SECTION &B IS OPEN TO JAMES SCHOLARS AND OTHER STUDENTS HAVING A MINIMUM GRADE POINT AVERAGE OF 4.0 AND MAY BE TAKEN IN CONJUNCTION WITH OTHER COURSES IN THIS DEPARTMENT SUBJECT TO APPROVAL OF INSTRUCTOR.

00916	CONF	A	ARR	STAFF
00924	CONF	*&B	ARR	STAFF

AG M 361 DEVELOPMENT AND FUNCTION OF FAMILY HOUSING.
SAME AS H. EC. 361.
3 HOURS OR 3/4 UNIT
SECOND FOUR WEEKS

00932	LECT-DISC	8-11	M W F	218	AGR ENG	HANSEN
	LAB	8-11	TU TH	209	AGR ENG	HANSEN

AGRICULTURE

COURSES FOR ADVANCED UNDERGRADUATES

AGR 208 COOPERATIVE EXTENSION WORK: SUMMER TRAINING.
PREREQUISITE: CONSENT OF INSTRUCTOR.
2 HOURS

00941	CONF	ARR	ANDERSON AND KAISER

DEPARTMENT OFFICE W201 T H

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

AGRON 300 ADVANCED SPECIAL PROBLEMS.
PREREQUISITE: MINIMUM GRADE POINT AVERAGE 3.5, NOT OPEN TO STUDENTS ON PROBATION, SENIOR STANDING, CONSENT OF THE INSTRUCTOR AND HEAD OF THE DEPARTMENT. SPECIFIC APPROVAL OF THE ASSOCIATE DEAN IS REQUIRED IN ADVANCE OF REGISTRATION FOR A SECOND AND/OR THIRD SPECIAL PROBLEMS COURSE.
*CREDIT IS NOT GIVEN TO GRADUATE STUDENTS MAJORING IN AGRONOMY.
*1 TO 5 HOURS, OR 1/2 UNIT TO 2 UNITS
SECTION &B IS OPEN TO JAMES SCHOLARS AND OTHER STUDENTS HAVING A MINIMUM GRADE POINT AVERAGE OF 4.0 AND MAY BE TAKEN IN CONJUNCTION WITH OTHER COURSES IN THIS DEPARTMENT SUBJECT TO APPROVAL OF INSTRUCTOR.

00959	LAB-DISC	A	ARR		T H	STAFF
00967	LAB-DISC	&B	ARR		T H	STAFF

AGRON 301 SOIL SURVEY, WITH EMPHASIS ON ILLINOIS SOILS.
PREREQUISITE: AGRON. 101 OR CONSENT OF INSTRUCTOR.
FIELD TRIPS, ESTIMATED EXPENSE $10.
3 HOURS OR 3/4 UNIT
FIRST FOUR WEEKS.

00975	LECT		10-12	MTUWTHF	W223 T H	ODELL
	LAB		2-5	TU TH	W223 T H	ODELL

COURSES FOR GRADUATES

AGRON 493 ADVANCED STUDIES IN AGRONOMY.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/4 TO 2 UNITS
WORK MAY BE TAKEN IN THE FOLLOWING FIELDS:
A--SOIL CHEMISTRY.
B--SOIL FERTILITY.
C--SOIL PHYSICS.
D--SOIL CLASSIFICATION AND PEDOLOGY.
E--SOIL MINERALOGY.
F--SOIL MICROBIOLOGY.
G--PLANT BREEDING AND GENETICS.
H--PLANT PHYSIOLOGY.
I--WEED CONTROL.
J--CROP MORPHOLOGY.
K--CROP PRODUCTION AND ECOLOGY.
L--STATISTICAL TECHNIQUES AND DATA PROCESSING.

00983	CONF	A	ARR	T H	STAFF
00991	CONF	B	ARR	T H	STAFF
01006	CONF	C	ARR	T H	STAFF
01014	CONF	D	ARR	T H	STAFF
01022	CONF	E	ARR	T H	STAFF
01031	CONF	F	ARR	T H	STAFF
01049	CONF	G	ARR	T H	STAFF
01057	CONF	H	ARR	T H	STAFF
01065	CONF	I	ARR	T H	STAFF
01073	CONF	J	ARR	T H	STAFF
01081	CONF	K	ARR	T H	STAFF
01090	CONF	L	ARR	T H	STAFF

AGRON 499 THESIS RESEARCH.
0 TO 2 UNITS
WORK TO BE TAKEN IN THE FOLLOWING SUBJECTS:
A-SOILS ALDRICH, BEAVERS, BRAIDS, FEHRENBACHER, GIESEKING, HINESLY, JONES, KURTZ, MELSTED, R. J. MILLER, MILLINGTON, MOLINA, ODELL, PETERS, RAY, RUNGE, STEVENSON, TYNER, WALKER, WELCH.
B-CROPS ALEXANDER, BERNARD, BROWN, BURGER, CARMER, COOPER, DEWET, DUDLEY, EARLEY, GERDEMANN, HADLEY, HAGEMAN, HANSON, HARLAN, HILTIBRAN, HITTLE, HOOKER, HYMOWITZ, JACKOBS, KNAKE, LAMBERT, LAUGHNAN, LENG, MCGLAMERY, D. A. MILLER, OGREN, PATTERSON, PENDLETON, RINNE, SCOTT, SEIF, SLIFE, WAX, WEBER, WEIBEL, WIDHOLM, WILSON, AND WOOLEY.

01102	CONF		ARR	T H	STAFF

AIR FORCE AEROSPACE STUDIES

DEPARTMENT OFFICE 230 ARMORY

AMERICAN CIVILIZATION

MAJOR: STUDENTS WHO ELECT AMERICAN CIVILIZATION AS A MAJOR MUST COMPLETE FORTY SEMESTER HOURS (WHICH SATISFIES BOTH MAJOR AND MINOR REQUIREMENTS FOR GRADUATION) IN COURSES INDICATED BELOW, AT LEAST TWENTY HOURS BEING IN COURSES NUMBERED 300 OR ABOVE. THEY ARE REQUIRED TO MAINTAIN A 3.0 GENERAL AVERAGE AT ALL TIMES, THAT IS, WHEN THE AVERAGE DROPS BELOW THAT LEVEL THE STUDENT SHALL DROP FROM THIS MAJOR. SPECIFICALLY REQUIRED ARE:

1. ENGL. 256, HIST. 151-152, AND EITHER ART 323 OR 324 OR PHIL. 313 (A TOTAL OF FIFTEEN HOURS). EQUIVALENT OR MORE ADVANCED COURSES MAY BE SUBSTITUTED PROVIDED THAT, TAKEN TOGETHER, THEY CONSTITUTE COMPREHENSIVE SURVEYS OF THE THREE FIELDS OF AMERICAN HISTORY, AMERICAN LITERATURE, AND EITHER AMERICAN ART OR AMERICAN PHILOSOPHY. APPROVAL FOR ANY SUCH SUBSTITUTION MUST BE REQUESTED BY A PETITION TO THE DEAN BEARING THE RECOMMENDATION OF THE ADVISOR FOR THE CURRICULUM.

2. AT LEAST SIX HOURS OF ADVANCED WORK IN ENGLISH AND AT LEAST SIX HOURS OF ADVANCED WORK IN HISTORY, CHOSEN FROM THE FOLLOWING COURSES ALL OF WHICH ARE IN THE AMERICAN FIELD: ENGL. 285-286, 287, 316, 352, 353-354, 375-376, HIST. 352, 354, 355, 356, 357-358, 359, 360, 361-362, 363-364, 367-368, 369-370, 371-372, 373-374. SPEECH 366 MAY BE SUBSTITUTED FOR ENGL. 316.

3. AT LEAST SIX HOURS FROM THE FOLLOWING COURSES: ARCH. 215-216, ECON 236, ED. 302, GEOG. 223, POL. S. 150-151, 351, 381, 397, SPCH. 312; OR COURSES LISTED IN THE PRECEDING PARAGRAPHS, IF NOT COUNTED TOWARD THE REQUIREMENTS THEREUNDER.

4. AT LEAST SIX ADDITIONAL HOURS IN ONE OF THE FOLLOWING DEPARTMENTS: ART, ENGLISH, HISTORY, PHILOSOPHY OR POLITICAL SCIENCE CHOSEN FROM COURSES WHICH DEAL WITH NON-AMERICAN ASPECTS OF THE SUBJECT BUT WHICH ARE CLOSELY RELATED TO SPECIFIC COURSES SELECTED UNDER THE PRECEDING REQUIREMENTS, SUCH AS, FOR EXAMPLE, A COURSE DEALING WITH THE SAME PERIOD IN EUROPEAN HISTORY OR IN ENGLISH LITERATURE.

THE COMMITTEE IN CHARGE OF THE CURRICULUM ADVISES EACH STUDENT CONCERNING THESE ADDITIONAL HOURS, ASSUMES RESPONSIBILITY FOR THE STUDENTS REGISTRATION IN THE PROPER COURSES, AND FILES A RECORD OF THE STUDENTS REGISTRATION INDICATING THE SPECIFIC COURSES APPROVED AS SATISFYING THIS REQUIREMENT IN THE OFFICE OF THE COLLEGE OF LIBERAL ARTS AND SCIENCES.

ADVISER--CHAIRMAN OF THE COMMITTEE IN CHARGE--PROFESSOR CLARK C. SPENCE, 359 ARMORY.

MINORS: THIS CURRICULUM HAS BEEN APPROVED AS A MINOR FOR STUDENTS MAJORING IN GEOGRAPHY, HISTORY, POLITICAL SCIENCE, AND SPEECH. A SPLIT MINOR IS NOT AUTHORIZED. NO COURSE COUNTED TOWARD THE STUDENTS MAJOR MAY BE COUNTED TOWARD THE MINOR. THE MINOR CONSISTS OF AT LEAST TWENTY SEMESTER HOURS, INCLUDING THE REQUIRED COURSES HIST. 151-152 AND ENGL. 113-114, AND IN ADDITION:

1. AT LEAST THREE HOURS FROM COURSES LISTED UNDER (2) OF THE REQUIREMENTS FOR THE MAJOR IN AMERICAN CIVILIZATION, EXCLUDING THOSE NUMBERED UNDER 300 AND THOSE IN THE DEPARTMENT IN WHICH THE STUDENT IS MAJORING.

2. THE REMAINDER, IF ANY, CHOSEN FROM COURSES LISTED UNDER (1) AND (3) OF THE REQUIREMENTS FOR MAJOR IN AMERICAN CIVILIZATION, EXCLUDING THOSE NUMBERED UNDER 300 AND THOSE IN THE DEPARTMENT IN WHICH THE STUDENT IS MAJORING.

DEPARTMENT OFFICE 328 M H

COURSES FOR ADVANCED UNDERGRADUATES

AN S 200 SPECIAL PROBLEMS.
PREREQUISITE: MINIMUM GRADE POINT AVERAGE 3.5, NOT OPEN TO STUDENTS ON PROBATION, SENIOR STANDING, CONSENT OF THE INSTRUCTOR AND HEAD OF THE DEPARTMENT. SPECIFIC APPROVAL OF THE ASSOCIATE DEAN IS REQUIRED IN ADVANCE OF REGISTRATION FOR A SECOND AND/OR THIRD SPECIAL PROBLEMS COURSE.
1 TO 5 HOURS
*SECTION &B IS OPEN TO JAMES SCHOLARS AND OTHER STUDENTS HAVING A MINIMUM GRADE POINT AVERAGE OF 4.0 AND MAY BE TAKEN IN CONJUNCTION WITH OTHER COURSES IN THIS DEPARTMENT SUBJECT TO APPROVAL OF INSTRUCTOR.

01111	LAB	A	ARR		STAFF
01129	LAB	*&B	ARR		

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

AN S 303 PORK PRODUCTION.
PREREQUISITE: AN. S. 221, OR EQUIVALENT.
3 HOURS CR 3/4 UNIT
FIRST FOUR WEEKS.

01137	LECT-DISC	8-10	MTUWTHF	313 M H	HARMON
		7-9PM	W	313 M H	

AN S 332 LIVESTOCK MARKETING.
SAME AS AG. EC. 332.
PREREQUISITE: ECON. 108, AG. EC. 230, OR AN ELEMENTARY MARKETING COURSE.
FIELD TRIP, ESTIMATED EXPENSE $15.00.
3 HOURS, CR 3/4 CR 1 UNIT
FIRST FOUR WEEKS.
*PLUS TWO ADDITIONAL HOURS TO BE ARRANGED.

01145	LECT-DISC	*10-12	MTUWTHF	W115 T H	BROADBENT

COURSES FOR GRADUATES

AN S 408 LABORATORY METHODS IN PHYSIOLOGY OF REPRODUCTION.
SAME AS ZOOL. 408.
PREREQUISITE: CONSENT OF INSTRUCTOR.
*COMBINED CREDIT IN AN.S. 407 AND 408 MAY NOT EXCEED TWO UNITS.
*1/2 TO 1 UNIT

01153	LAB	ARR		NALBANDOV

AN S 410 RESEARCH METHODS IN ANIMAL SCIENCE.
PREREQUISITE: CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE 1 UNIT.
*1/4 TO 1 UNIT

01161	CONF	ARR		GRADUATE STAFF

AN S 499 THESIS RESEARCH.
0 TO 2 UNITS

01170	CONF	ARR		GRADUATE STAFF

DEPARTMENT OFFICE 109 D H

MAJOR: TWENTY HOURS IN ANTHROPOLOGY, EXCLUDING ANTH. 102 AND 103. STUDENTS ARE STRONGLY ADVISED TO TAKE AT LEAST ONE COURSE FROM EACH OF THE PRINCIPAL FIELDS OF ANTHROPOLOGY: ARCHAEOLOGY, ETHNOLOGY (INCLUDING AT LEAST ONE COURSE DEALING WITH A PARTICULAR WORLD AREA), LINGUISTICS, AND PHYSICAL ANTHROPOLOGY.

MINORS: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: CLASSICS, ECONOMICS, GEOGRAPHY, GEOLOGY, HISTORY, LINGUISTICS, MATHEMATICS, PHILOSOPHY, POLITICAL SCIENCE, PSYCHOLOGY, SOCIOLOGY AND ZOOLOGY. THE INTERDEPARTMENTAL PROGRAM IN ASIAN STUDIES, LATIN-AMERICAN STUDIES OR IN RUSSIAN LANGUAGE AND AREA STUDIES IS ALSO ACCEPTED AS A SOLE MINOR.

COURSES FOR UNDERGRADUATES

ANTH 102 INTRODUCTION TO ANTHROPOLOGY: THE ORIGIN OF MAN AND CULTURE.
4 HOURS

01188	LECT		9-11	M WTH	112	G H	GIBBON
01196	DISC	A	8-10	TU	215	G H	
01209	DISC	B	10-12	TU	217	G H	
01217	DISC	C	1-3	TU	217	G H	
01225	DISC	D	10-12	F	217	G H	
01233	DISC	E	1-3	F	217	G H	

ANTH 103 INTRODUCTION TO CULTURAL ANTHROPOLOGY.
4 HOURS

01241	LECT		9-11	M WTH	141	COM W	BRUKMAN
01250	DISC	A	8-10	TU	311	G H	
01268	DISC	B	10-12	TU	215	G H	
01276	DISC	C	1-3	TU	43	G H	
01284	DISC	D	10-12	F	215	G H	
01292	DISC	E	1-3	F	215	G H	

COURSES FOR ADVANCED UNDERGRADUATES

ANTH 290 HONORS COURSE.
PREREQUISITE: SENIOR STANDING AND 4.0 AVERAGE.
2 TO 4 HOURS

01305	CONF	ARR		STAFF

ANTH 291 HONORS COURSE.
PREREQUISITE: SENIOR STANDING AND 4.0 AVERAGE.
2 TO 4 HOURS

01313	CONF	ARR		STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

ANTH 300 INTRODUCTION TO LINGUISTICS.
SAME AS LING. 300.
PREREQUISITE: FULFILLMENT OF THE FOREIGN LANGUAGE REQUIREMENT IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES, OR EQUIVALENT.
3 HOURS OR 1/2 UNIT

01321	LECT-DISC		8	MTUWTHFS	152	ADMIN

ANTH 316 INTRODUCTION TO MUSIC OF THE WORLDS CULTURES.
SAME AS MUSIC 316.
FOR STUDENTS OUTSIDE THE SCHOOL OF MUSIC.
PREREQUISITE: ANTH. 103 OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT

01330	LECT-DISC	A	9	TUWTHF	101	H A	NETTL

ANTH 321 PRIMITIVE SOCIAL ORGANIZATION.
PREREQUISITE: ANTH. 103, OR 260, OR 280, OR EQUIVALENT.
3 HOURS OR 1 UNIT

01348	LECT-DISC	A	2-4	M W F	209A	D H	BRUKMAN

ANTH 354 FIELD TECHNIQUES IN ARCHAEOLOGY.
PREREQUISITE: ANTH. 102 AND 103, OR CONSENT OF INSTRUCTOR.
FIELD TRIP REQUIRED.
*STUDENTS MAY ACCUMULATE 6 HOURS OR 2 UNITS, IF AREA OR PROBLEMS ARE DIFFERENT.
*3 HOURS OR 1 UNIT
01356 LAB-DISC ARR BAREIS

ANTH 355 LABORATORY TECHNIQUES AND PROBLEMS IN ARCHAEOLOGY.
PREREQUISITE: ANTH. 102 AND 103, OR CONSENT OF INSTRUCTOR.
FIELD TRIP REQUIRED.
*STUDENTS MAY ACCUMULATE 6 HOURS OR 2 UNITS, IF AREA OR PROBLEMS ARE DIFFERENT.
*3 HOURS OR 1 UNIT
01364 LAB ARR BAREIS

ANTH 359 THE MESOLITHIC AND THE ORIGINS OF FOOD PRODUCTION IN THE OLD WORLD.
PREREQUISITE: ANTH. 220 AND CONSENT OF INSTRUCTOR.
3 HOURS OR 1 UNIT
01372 LECT-DISC A 12-2 M W F 209A D H GIBBON

ANTH 364 FIELD WORK IN CULTURAL ANTHROPOLOGY.
PREREQUISITE: ANTH. 102 AND 103, SPEAKING KNOWLEDGE OF THE LANGUAGE OF THE AREA CONCERNED. CONCURRENT REGISTRATION IN ANTH. 365, CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE 6 HOURS OR 2 UNITS, IF AREA OR PROBLEMS ARE DIFFERENT.
*3 HOURS OR 1 UNIT
01381 LAB ARR PLATH

ANTH 365 ANALYSIS OF FIELD DATA IN CULTURAL ANTHROPOLOGY.
PREREQUISITE: ANTH. 102 AND 103, SPEAKING KNOWLEDGE OF THE LANGUAGE OF THE AREA CONCERNED, CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE 6 HOURS, OR 2 UNITS, IF AREA OR PROBLEMS ARE DIFFERENT.
*3 HOURS OR 1 UNIT
01399 LAB ARR PLATH

ANTH 383 CULTURES OF MODERN EAST ASIA.
PREREQUISITE: AN INTRODUCTORY COURSE IN ANTHROPOLOGY OR EAST ASIAN HISTORY, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1 UNIT
01401 LECT-DISC A 9-11 M WTH 109A D H PLATH

COURSES FOR GRADUATES

ANTH 450 SEMINAR IN ANTHROPOLOGY.
*STUDENTS MAY ACCUMULATE TWO UNITS.
*1 UNIT
01410 CONF ARR STAFF

ANTH 489 READINGS IN ANTHROPOLOGY.
PREREQUISITE: ONE SEMESTER OF GRADUATE WORK IN ANTHROPOLOGY; CONSENT OF ADVISER.
1/2 OR 1 UNIT
01428 CONF ARR STAFF

ANTH 490 INDIVIDUAL TOPICS IN ANTHROPOLOGY.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 TO 4 UNITS
01436 CONF A ARR STAFF

ANTH 499 THESIS RESEARCH.
0 TO 2 UNITS
*SECTION A IS FOR MASTERS THESIS AND SECTION B IS FOR DOCTORS THESIS.
01444 CONF *A ARR STAFF
01452 CONF *B ARR STAFF

DEPARTMENT OFFICE 106 ARCH

IN THE CURRICULUM IN ARCHITECTURE, NORMAL COURSE PROGRESS IN SEQUENCE IS IMPERATIVE. STUDENTS FAILING TO COMPLETE ANY REQUIRED COURSE MORE THAN ONE SEMESTER LATER THAN THE TIME DESIGNATED IN THE CURRICULUM, ARE PROHIBITED FROM PROGRESSIVE REGISTRATION IN ARCHITECTURAL COURSES UNTIL THE DEFICIENCY IS CORRECTED.

COURSES FOR UNDERGRADUATES

ARCH 132 ARCHITECTURAL DESIGN, III.
PREREQUISITE: ARCH. 131.
3 HOURS

01461	LAB	A	8-12	M W F	206	F A B	STAFF
		A	9-12	TU TH	206	F A B	STAFF

COURSES FOR ADVANCED UNDERGRADUATES

ARCH 233 ARCHITECTURAL DESIGN, IV.
PREREQUISITE: ARCH. 132; CREDIT OR REGISTRATION IN T. A. M. 150 OR 171.
3 HOURS

01479	LAB	A	8-12	M W F	206	F A B	STAFF
		A	9-12	TU TH	206	F A B	STAFF

ARCH 234 ARCHITECTURAL DESIGN, V.
PREREQUISITE: ARCH. 233.
3 HOURS

01487	LAB	A	8-12	M W F	206	F A B	STAFF
		A	9-12	TU TH	206	F A B	STAFF

ARCH 235 ARCHITECTURAL DESIGN, VI.
PREREQUISITE: ARCH. 234.
5 HOURS

01495	LAB	A	8-12	M W F	206	F A B	STAFF
		A	9-12	TU TH	206	F A B	STAFF
		A	1-5	MTU TH	206	F A B	STAFF

ARCH 236 ARCHITECTURAL DESIGN, VII.
PREREQUISITE: ARCH. 235.
5 HOURS

01508	LAB	A	8-12	M W F	206	F A B	STAFF
		A	9-12	TU TH	206	F A B	STAFF
		A	1-5	MTU TH	206	F A B	STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

ARCH 337 ARCHITECTURAL DESIGN.
PREREQUISITE: ARCH. 236, SENIOR STANDING IN ARCHITECTURE.
7 HOURS OR 2 UNITS

01516	LAB	A	8-12	MTUWTHF	206	F A B	STAFF
		A	1-5	MTUWTHF	206	F A B	STAFF

ARCH 338 ARCHITECTURAL DESIGN.
PREREQUISITE: ARCH. 337.
7 HOURS OR 2 UNITS

01524	LAB	A	8-12	MTUWTHF	206	F A B	STAFF
		A	1-5	MTUWTHF	206	F A B	STAFF

COURSES FOR GRADUATES

ARCH 494 SPECIAL PROBLEMS IN ARCHITECTURAL DESIGN.
PREREQUISITE: ARCH. 435 OR CONSENT OF INSTRUCTOR.
1/2 TO 2 UNITS

01532	LAB	A	8-12	MTUWTHF	206	F A B	STAFF
		A	1-5	MTUWTHF	206	F A B	STAFF

ARMY ROTC--SEE MILITARY SCIENCE

ART

DEPARTMENT OFFICE 143 F A B

COURSES IN ART APPRECIATION AND THE HISTORY OF ART

COURSES FOR UNDERGRADUATES

ART 115 ART APPRECIATION.
PRIMARILY FOR NON-ART STUDENTS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
3 HOURS

01541	LECT	A	11	MTUWTHF	62	K M	GAMBILL

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

ART 317 ITALIAN ART OF THE SIXTEENTH CENTURY.
PREREQUISITE: ONE YEAR OF HISTORY OF ART, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 3/4 UNIT.

01559	LECT	A	B	MTUWTHFS	62	K M	FEHL

STUDIO COURSES PRIMARILY FOR NON-ART STUDENTS

COURSES FOR UNDERGRADUATES

ART 105 INTRODUCTION TO WATER COLOR PAINTING.
NOT OPEN TO STUDENTS MAJORING IN ART.
*STUDENTS MAY ACCUMULATE FOUR HOURS CREDIT.
*2 HOURS

01567	LAB	A	1-5	M W F	209	F A B	

ART 106 INTRODUCTION TO OIL PAINTING.
NOT OPEN TO STUDENTS MAJORING IN ART.
*STUDENTS MAY ACCUMULATE FOUR HOURS.
*2 HOURS

01575	LAB	A	9-1	M W F	336	F A B	

ART 107 ELEMENTARY DRAWING.
FOR STUDENTS NOT MAJORING IN ART.
*STUDENTS MAY ACCUMULATE FOUR HOURS.
*2 HOURS

01583	LAB	A	8-12	M W F	370	ARMORY	

ART 185 DESIGN, I.
FOR NON-ART MAJORS.
2 HOURS

01591	LAB	A	1-5	M W F	319	F A B	

COURSES FOR UNDERGRADUATES

ART 117 DRAWING, I.
OPEN ONLY TO STUDENTS IN THE COLLEGE OF FINE AND APPLIED ARTS AND IN HOME ECONOMICS OPTION 1.
2 HOURS

01604	LAB	A	8-12	M W F	370	ARMORY	

ART 118 DRAWING, II.
OPEN ONLY TO STUDENTS IN THE COLLEGE OF FINE AND APPLIED ARTS AND IN HOME ECONOMICS OPTION 1.
PREREQUISITE: ART 117.
2 HOURS

01612	LAB	A	8-12	M W F	372	ARMORY	

ART 119 DESIGN, I.
OPEN ONLY TO STUDENTS IN THE COLLEGE OF FINE AND APPLIED ARTS AND IN HOME ECONOMICS OPTION 1.
2 HOURS

01621	LAB	A	8-12	TU TH S	107	F A B	MOORE

ART 120 DESIGN, II.
OPEN ONLY TO STUDENTS IN COLLEGE OF FINE AND APPLIED ARTS AND IN HOME ECONOMICS OPTION 1.
PREREQUISITE: ART 119.
2 HOURS

01639	LAB	A	8-12	TU TH S	107	F A B	MOORE

ART 125 LIFE DRAWING, I.
PREREQUISITE: ART 113, 114 AND 118.
2 HOURS
*3 HOURS TO BE ARRANGED.

01647	LAB	A	*2-5	TU TH	236	F A B	LANCASTER
		A	*7-PM	TU	236	F A B	

ART 126 LIFE DRAWING, II.
PREREQUISITE: ART 125.
2 HOURS
*3 HOURS TO BE ARRANGED.

01655	LAB	A	*2-5	TU TH	236	F A B	LANCASTER
		A	*7-PM	TU	236	F A B	

ART 131 ELEMENTARY COMPOSITION.
PREREQUISITE: ART 113, 114, 118, 120, AND 122.
2 HOURS

01663	LAB	A	9-1	TU TH S	9	F A B	ZAGORSKI

ART 132 ELEMENTARY COMPOSITION.
PREREQUISITE: ART 131.
2 HOURS

01671	LAB	A	9-1	TU TH S	9	F A B	ZAGORSKI

ART 133 DESIGN WORKSHOP.
PRIMARILY FOR STUDENTS IN INDUSTRIAL DESIGN CURRICULUM.
PREREQUISITE: ART 118, 120, AND 122, OR CONSENT OF INSTRUCTOR.
3 HOURS
*6 HOURS TO BE ARRANGED.

01680	LAB	A	*9-1	TU TH S	9	F A B	ZAGORSKI

ART 134 DESIGN WORKSHOP.
PRIMARILY FOR STUDENTS IN INDUSTRIAL DESIGN CURRICULUM.
PREREQUISITE: ART 133.
3 HOURS
*6 HOURS TO BE ARRANGED.

01698	LAB	A	*9-1	TU TH S	9	F A B	ZAGORSKI

ART 141 STILL LIFE, I.
PREREQUISITE: FRESHMAN STANDING IN ART.
2 HOURS

01701	LAB	A	9-1	M W F	338	F A B	

ART 142 STILL LIFE, II.
PREREQUISITE: ART 141.
2 HOURS
01719 LAB A 9-1 M W F 338 F A B

ART 161 CALLIGRAPHIC DESIGN.
PREREQUISITE: SOPHOMORE STANDING IN ART.
2 HOURS
01727 LAB A 9-1 M W F 311 F A B PERLMAN

ART 162 LETTERFORM DESIGN.
PREREQUISITE: SOPHOMORE STANDING IN ART.
2 HOURS
01735 LAB A 9-1 M W F 311 F A B PERLMAN

ART 183 FREEHAND DRAWING, III.
PREREQUISITE: ART 182. PRIMARILY FOR STUDENTS IN ARCHITECTURE.
2 HOURS
01743 LAB A 1-5 M W F 229 F A B

ART 184 FREEHAND DRAWING, IV.
PREREQUISITE: ART 183. PRIMARILY FOR STUDENTS IN ARCHITECTURE.
2 HOURS
01751 LAB A 1-5 M W F 229 F A B

ART 190 RECREATIONAL CRAFTS, I.
PRIMARILY FOR RECREATION MAJORS IN PHYSICAL EDUCATION.
PREREQUISITE: SOPHOMORE STANDING OR CONSENT OF INSTRUCTOR.
*CREDIT IS NOT GIVEN FOR BOTH ART 190 AND ART 203.
*2 HOURS
01760 LAB A 2-5 TUWTHF 106 F A B

ART 191 RECREATIONAL CRAFTS, II.
PRIMARILY FOR RECREATION MAJORS IN PHYSICAL EDUCATION.
PREREQUISITE: ART 190.
2 HOURS
01778 LAB A 2-5 TUWTHF 106 F A B

ART 194 POTTERY, I.
PREREQUISITE: SOPHOMORE STANDING OR CONSENT OF INSTRUCTOR.
2 HOURS
01786 LAB A 9-1 M W F 152 N E L PILCHER

ART 195 POTTERY, II.
PREREQUISITE: ART 194.
2 HOURS
01794 LAB A 9-1 M W F 152 N E L PILCHER

COURSES FOR ADVANCED UNDERGRADUATES

ART 201 WATER COLOR, I.
PREREQUISITE: ART 118 AND 120.
2 HOURS
01807 LAB A 1-5 M W F 209 F A B

ART 202 WATER COLOR, II.
PREREQUISITE: ART 201.
2 HOURS
01815 LAB A 1-5 M W F 209 F A B

ART 203 ART EDUCATION LABORATORY.
FOR NON-ART STUDENTS ONLY.
PREREQUISITE: JUNIOR STANDING.
CREDIT IS NOT GIVEN FOR BOTH ART 190 AND ART 203.
2 HOURS
01823 LAB A 2-5 TUWTHF 107 F A B

ART 204 ART EDUCATION LABORATORY.
PREREQUISITE: ART 132 OR JUNIOR STANDING.
2 HOURS
01831 LAB A 2-5 TUWTHF 107 F A B

ART 215 BASIC PHOTOGRAPHY, I.
SUPPLIES COST APPROXIMATELY $40.
PREREQUISITE: JUNIOR STANDING IN ART OR CONSENT OF INSTRUCTOR.
3 HOURS
*6 HOURS TO BE ARRANGED.

01840	LAB	A	*2-5	TUWTHF	335	F A B	COLLEY

ART 216 BASIC PHOTOGRAPHY, II.
SUPPLIES COST APPROXIMATELY $40.
PREREQUISITE: ART 215.
*STUDENTS MAY ACCUMULATE 6 HOURS WITH CONSENT OF INSTRUCTOR.
*3 HOURS
SIX ADDITIONAL HOURS TO BE ARRANGED.

01858	LAB	A	2-5	TUWTHF	335	F A B	COLLEY

ART 225 INTERMEDIATE DRAWING, I.
PREREQUISITE: JUNIOR STANDING IN ART.
2 HOURS
*THREE HOURS TO BE ARRANGED.

01866	LAB	A	*2-5	TU TH	240	F A B	LANCASTER
		A	*7-PM	TU	240	F A B	LANCASTER

ART 226 INTERMEDIATE DRAWING, II.
PREREQUISITE: ART 225.
2 HOURS
*THREE HOURS TO BE ARRANGED.

01874	LAB	A	*2-5	TU TH	240	F A B	LANCASTER
		A	*7-PM	TU	240	F A B	LANCASTER

ART 231 INTERMEDIATE COMPOSITION, I.
PREREQUISITE: ART 132.
3 HOURS

01882	LAB	A	9-1	M W F	318	F A B	GUNTER
		A	9-12	TU TH	318	F A B	

ART 232 INTERMEDIATE COMPOSITION, II.
PREREQUISITE: ART 231.
3 HOURS

01891	LAB	A	9-1	M W F	318	F A B	GUNTER
		A	9-12	TU TH	318	F A B	

ART 243 FIGURE PAINTING, I.
PREREQUISITE: JUNIOR STANDING IN ART.
2 HOURS

01903	LAB	A	9-1	M W F	324	F A B	GUNTER

ART 244 FIGURE PAINTING, II.
PREREQUISITE: ART 243.
2 HOURS

01911	LAB	A	9-1	M W F	324	F A B	GUNTER

ART 248 SPECIAL PROBLEMS.
PREREQUISITE: JUNIOR STANDING IN ART AND CONSENT OF INSTRUCTOR.
2 HOURS

01920	LAB	A	ARR		139B	F A B	WICKS

ART 265 GRAPHIC DESIGN, I.
PREREQUISITE: ART 161 AND 162 FOR GRAPHIC DESIGN MAJORS; JUNIOR STANDING IN ART OR CONSENT OF INSTRUCTOR FOR OTHERS.
3 HOURS

01938	LAB	A	9-1	M W F	319	F A B	PERLMAN
		A	9-12	TU TH	319	F A B	

ART 266 GRAPHIC DESIGN, II.
PREREQUISITE: ART 265.
3 HOURS

01946	LAB	A	9-1	M W F	319	F A B	PERLMAN
		A	9-12	TU TH	319	F A B	

ART 281 FREEHAND DRAWING, V.
PREREQUISITE: ART 184.
2 HOURS

01954	LAB	A	1-5	M W F	229	F A B	

ART 282 FREEHAND DRAWING, VI.
PREREQUISITE: ART 281.
2 HOURS

01962	LAB	A	1-5	M W F	229	F A B		

ART 283 PRINTMAKING, I.
PREREQUISITE: JUNIOR STANDING IN ART OR CONSENT OF INSTRUCTOR.
2 HOURS
*FOUR HOURS TO BE ARRANGED.

01971	LAB	A	*2-6	TU TH	GRAD STUDIO		ROWAN

ART 284 PRINTMAKING, II.
PREREQUISITE: ART 283.
2 HOURS
*FOUR HOURS TO BE ARRANGED.

01989	LAB	A	*2-6	TU TH	GRAD STUDIO		ROWAN

ART 290 CERAMIC RAW MATERIALS.
PREREQUISITE: L. A. S. 141, 142, JUNIOR STANDING IN CURRICULUM IN CRAFTS-CERAMIC EMPHASIS.
2 HOURS

01997	LAB	A	2-6	M W F	152	N E L	FRITH

ART 291 GLAZE CALCULATION.
PREREQUISITE: L. A. S. 141, 142, ART 290, JUNIOR STANDING IN CURRICULUM IN CRAFTS-CERAMIC EMPHASIS.
2 HOURS

02001	LAB	A	2-6	M W F	152	N E L	FRITH

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

ART 380 DRAWING.
PREREQUISITE: CONSENT OF INSTRUCTOR. FOR GRADUATE STUDENTS, CONSENT OF DEPARTMENTAL GRADUATE COMMITTEE.
2 HOURS, OR 1/2 TO 1 UNIT
*THREE HOURS TO BE ARRANGED.

02010	LAB	A	*2-5	TU TH	240	F A B	LANCASTER
		A	*7-PM	TU	240	F A B	

ART 381 PAINTING.
PREREQUISITE: ART 142 OR EQUIVALENT, FOR GRADUATE STUDENTS, CONSENT OF DEPARTMENTAL GRADUATE COMMITTEE. NOT OPEN TO CANDIDATES FOR M. F. A. IN PAINTING.
*COURSE MAY BE REPEATED FOR A TOTAL OF TWO UNITS.
*2 TO 4 HOURS, OR 1/2 TO 1 UNIT

02028	LAB	A	9-1	M W F	308	F A B	GUNTER

ART 383 PRINT MEDIA.
PREREQUISITE: ART 284 OR EQUIVALENT. FOR GRADUATE STUDENTS, CONSENT OF DEPARTMENTAL GRADUATE COMMITTEE. NOT OPEN TO CANDIDATES FOR M. F. A. IN PAINTING.
2 HOURS, OR 1/2 TO 1 UNIT
*FOUR HOURS TO BE ARRANGED.

02036	LAB	A	*2-6	TU TH	GRAD STUDIO		ROWAN

ART 394 CERAMIC DESIGN.
PREREQUISITE: ART 295 OR CONSENT OF INSTRUCTOR.
2 TO 4 HOURS, OR 1/2 TO 2 UNITS

02044	LAB	A	2-6	M W F	152	N E L	FRITH

COURSES FOR GRADUATES

ART 491 SPECIAL PROBLEMS.
1/2 TO 2 UNITS

02052	LAB	A	ARR		GRAD STUDIO		DOOLITTLE
02061	LAB	B	ARR		140	F A B	DOOLITTLE

ART 492 INDIVIDUAL READINGS IN HISTORY OF ART.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/2 TO 1 UNIT

02079	CONF	A	ARR		218	D K H	FEHL

ART 493 SEMINAR.
PREREQUISITE: GRADUATE STANDING IN ART.
1 UNIT

02087	CONF	A	ARR	218 D K H		FEHL

ART 495 PAINTING LABORATORY.
1/2 TO 3 UNITS

02095	LAB	A	ARR	GRAD STUDIO	DOOLITTLE

ASIAN STUDIES

DEPARTMENT OFFICE 201, 1208 W. CALIFORNIA

AN UNDERGRADUATE MINOR IN ASIAN STUDIES IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES REQUIRES AT LEAST TWENTY SEMESTER HOURS. THE TWENTY HOURS MUST INCLUDE ASIAN STUDIES 202 AND THE REMAINDER DISTRIBUTED AMONG AT LEAST THREE DEPARTMENTS AND CHOSEN FROM THE COURSES LISTED BELOW. COURSES USED FOR MAJOR CREDIT MAY NOT BE INCLUDED WITHIN THE TWENTY HOURS FOR THE MINOR. IT IS ADVISABLE EITHER TO INCLUDE IN THE MINOR, OR TO ACCOMPANY THE MINOR WITH, ONE OF THE 201-202 ASIAN LANGUAGE SEQUENCES OFFERED. BURMESE, CHINESE, INDONESIAN, AND JAPANESE ARE OFFERED BY THE CENTER FOR ASIAN STUDIES. HINDI, ARABIC AND MODERN HEBREW ARE GIVEN IN THE DEPARTMENT OF LINGUISTICS. STUDENTS INTENDING TO MINOR IN ASIAN STUDIES SHOULD NOTIFY THE CENTER OFFICE.

A CANDIDATE FOR A MASTER'S DEGREE WHO ELECTS ASIAN STUDIES AS A MINOR MUST EARN AT LEAST TWO UNITS OF GRADUATE CREDIT IN AT LEAST TWO DEPARTMENTS FROM THE COURSES LISTED BELOW.

A DOCTORAL CANDIDATE WHO ELECTS ASIAN STUDIES AS A MINOR MUST EARN AT LEAST FOUR UNITS OF GRADUATE CREDIT IN AT LEAST TWO DEPARTMNETS FROM THE COURSES LISTED BELOW. ALSO THE DOCTORAL CANDIDATE MUST, PRIOR TO THE COMPLETION OF HIS COURSE REQUIREMENTS FOR THE DEGREE, COMPLETE SATISFACTORILY ONE OF THE FOLLOWING: ARABIC 304, BURMESE 304, CHINESE 304, HINDI 304, INDONESIAN 304, JAPANESE 304, OR EQUIVALENT.
THE COURSES CHOSEN FOR THE GRADUATE MINOR MUST BE IN DEPARTMENTS OUTSIDE THE CANDICATE'S MAJOR.
STUDENTS SHOULD BE ADVISED TO CONSULT WITH THE CENTER OFFICE FOR OTHER COURSES THAT MAY BE ACCEPTABLE FOR CREDIT TOWARD THE MINOR.

STUDENTS OF THE UNIVERSITY WHO SEEK KNOWLEDGE OF EAST, SOUTHEAST, SOUTH, AND MIDDLE EAST ASIAN AFFAIRS AND CULTURES ARE INVITED TO CONSULT, EITHER DIRECTLY OR THROUGH THEIR ADVISERS, WITH THE DIRECTOR AND FACULTY MEMBERS OF THE CENTER FOR ASIAN STUDIES IN ORDER TO DEVELOP PROGRAMS SUITED TO THEIR INDIVIDUAL NEEDS. THE CENTER IS DESIGNATED A NATIONAL DEFENSE EDUCATION ACT (N.D.E.A.). LANGUAGE AND AREA STUDIES CENTER. THE DIRECTOR IS PROFESSOR ROBERT B. CRAWFORD, ASSOCIATE DIRECTOR IS G. L. TIKKU, ROOM 201, 1208 WEST CALIFORNIA, URBANA.

BELOW ARE LISTED COURSES ACCEPTABLE TOWARD THE ASIAN STUDIES MINOR. FOR FULL COURSE DESCRIPTIONS, CONSULT THE ENTRIES OF THE APPROPRIATE DEPARTMENTS.

AG EC	353	HIST	397, 398, 399, 409, 441
ANTH	315, 316, 366, 368, 375,		443, 445
	383, 409, 410, 450	INDON	201, 202, 303, 304
ARAB	201, 202, 203, 204, 303,	JAPAN	201, 202, 205, 206, 303,
	304, 305, 306, 307, 308,		304, 305, 306, 309, 310,
ART	209, 302, 306, 316, 326,		320, 330
	327, 328, 452, 453	KOREA	201, 202, 303, 304, 330
AS ST	202, 295	LING	303, 330, 350, 351, 360
BURM	201, 202, 303, 304		382, 383, 409, 410, 490
CHIN	201, 202, 205, 206, 303,	M HBR	201, 202, 303, 304, 305,
	304, 305, 306, 307, 308,		306
	309, 310, 320, 330, 350	MUSIC	316, 317
C LIT	309	PERS	201, 202, 205, 303, 304
ECON	353, 358		305, 306, 309
GEOG	351, 357	PHIL	361
HINDI	201, 202, 303, 304, 305,	POL S	337, 338, 347, 348, 349,
	306, 307, 308, 309, 310		380, 389, 437, 446, 448,
HIST	209, 210, 298, 307, 308,		449
	387, 388, 389, 390, 391,	R SOC	343
	392, 393, 394, 395, 396	SOC	328, 343, 355, 371

DURING THE SUMMER OF 1970, THE COMMITTEE ON INSTITUTIONAL COOPERATION (THE BIG 10 AND THE UNIVERSITY OF CHICAGO) WILL HOLD THE 8TH CIC FAR EASTERN LANGUAGE INSTITUTE AT THE UNIVERSITY OF MINNESOTA. COURSES IN CHINESE AND JAPANESE WILL BE OFFERED AT THE ELEMENTARY, INTERMEDIATE, AND ADVANCED LEVELS. ALSO DURING THE SUMMER OF 1970, THE UNIVERSITY OF MICHIGAN, IN COOPERATION WITH THE CIC WILL SPONSOR THE INTER-UNIVERSITY ROTATING SUMMER PROGRAM IN SOUTH ASIAN STUDIES. INTENSIVE INSTRUCTION IN SOUTH ASIAN LANGUAGES WILL BE OFFERED. QUALIFIED UNIVERSITY OF ILLINOIS STUDENTS (UNDERGRADUATE AND GRADUATE) ARE ELIGIBLE TO TAKE INTENSIVE COURSES AT THESE INSTITUTES FOR APPROPRIATE CREDIT AS PART OF THE U. OF I. SUMMER SESSION OFFERINGS.

FOR FURTHER INFORMATION ABOUT THESE INSTITUTES AND THEIR COURSE OFFERINGS, STUDENTS OR FACULTY ADVISERS SHOULD CONTACT THE CENTER FOR ASIAN STUDIES, 1208 WEST CALIFORNIA, ROOM 201, URBANA, ILLINOIS, 333-4650.

ASTRONOMY

DEPARTMENT OFFICE 103 OBSERV

MAJOR: TWENTY HOURS IN ASTRONOMY EXCLUDING ASTRONOMY 101. PHYSICS COURSES AT THE 300-LEVEL MAY BE SUBSTITUTED FOR ASTRONOMY COURSES TO THE EXTENT OF SIX HOURS AS PART OF THE MAJOR.

MINOR: TWENTY HOURS WHICH MUST INCLUDE PHYSICS 106, 107, AND 108. THE REMAINING EIGHT HOURS MAY BE TAKEN IN PHYSICS OR IN ONE OF THE FOLLOWING SUBJECTS: CHEMISTRY, GEOLOGY, MATHEMATICS, PHILOSOPHY. IF TWO SUBJECTS ARE CHOSEN, AT LEAST EIGHT HOURS MUST BE TAKEN IN EACH.

INDIVIDUAL INSTRUCTION IS PROVIDED FOR SUPERIOR UNDERGRADUATE STUDENTS AT HOURS TO BE ARRANGED.

COURSES FOR UNDERGRADUATES

ASTR 101 DESCRIPTIVE ASTRONOMY.
NOT OPEN TO STUDENTS WHO HAVE HAD TWO OR MORE SEMESTERS OF COLLEGE PHYSICS.
*CREDIT IS NOT GIVEN TO STUDENTS WITH CREDIT IN ASTR. 210.
#4 HOURS

02108	LECT	9	MTUWTHF	3	G H		WYATT
	LAB	8PM	W	124	OBSERV		
	DISC	2	TU TH	4	G H		

COURSES FOR GRADUATES

ASTR 499 THESIS RESEARCH
0 TO 2 UNITS

02116	CONF	ARR					STAFF

DEPARTMENT OFFICE U OF I WILLARD AIRPORT

COURSES OFFERED BY THE INSTITUTE OF AVIATION ARE OPEN TO STUDENTS AND FACULTY IN ALL DEPARTMENTS OF THE UNIVERSITY, SUBJECT TO LIMITATIONS IMPOSED BY THE AVAILABILITY OF SPACE AND EQUIPMENT. CREDIT FOR INSTITUTE OF AVIATION COURSES IS GENERAL UNIVERSITY CREDIT. HOWEVER, ITS USE AS CREDIT TOWARD GRADUATION IS A MATTER FOR EACH COLLEGE TO PASS UPON.

THE FEE FOR EACH INSTITUTE OF AVIATION FLIGHT COURSE IS $475, EXCEPT FOR SOARING 110 OR 111 WHICH IS $245.
IT WILL BE NECESSARY FOR THE AVIATION 101 STUDENT TO OBTAIN AN F.A.A. MEDICAL CERTIFICATE AT HIS OWN EXPENSE.
STUDENTS IN AVI. 104 ARE REQUIRED TO POSSESS A CURRENT SECOND CLASS F.A.A. MEDICAL CERTIFICATE AT THE TIME OF REGISTRATION.

BUS TRANSPORTATION BETWEEN THE CAMPUS AND AIRPORT IS PROVIDED FREE OF CHARGE TO ALL STUDENTS REGISTERED IN AVIATION COURSES. THE DAILY BUS SCHEDULE, WITH ROUTINGS, IS LISTED SEPARATELY IMMEDIATELY FOLLOWING THE FLIGHT COURSES. STUDENTS MAY PROVIDE THEIR OWN TRANSPORTATION IF THEY WISH.

STUDENTS ARE CAUTIONED THAT ALL TIMES LISTED IN THE FOLLOWING FLIGHT SCHEDULES REFER TO AIRBORNE TIME AND THAT A MINIMUM OF 30 MINUTES MUST BE ALLOWED FOR TRAVELING TO THE AIRPORT PRIOR TO EACH FLIGHT AND FOR RETURNING TO THE CAMPUS AFTER EACH FLIGHT.

COURSES FOR UNDERGRADUATES

IN SOME CASES TWO OR MORE FLIGHT COURSES MAY BE TAKEN CONCURRENTLY BY SPECIAL PERMISSION.

AVI 101 PRIVATE PILOT.
3 HOURS
NOTE: DEPARTMENTAL APPROVAL BY CHIEF OF PILOT TRAINING IS REQUIRED.
EACH AVI. 101 STUDENT MUST REGISTER FOR ONE LECT., ONE DISC. AND ONE FLIGHT SECTION.

02124	LECT	A	750	MTUWTHF	400	E H		EMANUEL &
02132	LECT	B	3	MTUWTHF	400	E H		STAFF
02141	DISC	A	730-930PM	TU	400	E H		BENN &
02159	DISC	B	730-930PM	W	400	E H		STAFF
02167	FLT	F1	8-930	MTUWTHFS		AIRPORT		
02175	FLT	F2	930-11	MTUWTHFS		AIRPORT		
02183	FLT	F3	11-1230	MTUWTHFS		AIRPORT		
02191	FLT	F4	1230-2	MTUWTHFS		AIRPORT		
02204	FLT	F5	2-330	MTUWTHFS		AIRPORT		
02212	FLT	F6	330-5	MTUWTHFS		AIRPORT		

AVI 102 SECONDARY FLIGHT.
PREREQUISITE: AVI. 101 OR PRIVATE PILOT CERTIFICATE, CONSENT OF DIRECTOR.
3 HOURS
NOTE: DEPARTMENTAL APPROVAL BY CHIEF OF PILOT TRAINING IS REQUIRED.

02221	LECT-DISC		11	MTUWTHF	400	E H		EMANUEL
02239	FLT	F1	8-930	MTUWTHFS		AIRPORT		BENN &
02247	FLT	F4	1230-2	MTUWTHFS		AIRPORT		STAFF
02255	FLT	F5	2-330	MTUWTHFS		AIRPORT		
02263	FLT	F6	330-5	MTUWTHFS		AIRPORT		

AVI 103 INTERMEDIATE FLIGHT.
PREREQUISITE: AVI. 101 OR PRIVATE PILOT CERTIFICATE, CONSENT OF DIRECTOR.
3 HOURS
NOTE: DEPARTMENTAL APPROVAL BY CHIEF OF PILOT TRAINING IS REQUIRED.

02271	LECT-DISC		12	MTUWTHF	400	E H		EMANUEL
02280	FLT	X1	8-1130	M TH		AIRPORT		GORDON &
02298	FLT	X2	130-530	M TH		AIRPORT		STAFF
02301	FLT	X3	8-1130	TU F		AIRPORT		
02319	FLT	X4	130-530	TU F		AIRPORT		
02327	FLT	X5	8-1130	W S		AIRPORT		
02335	FLT	X6	130-530	W S		AIRPORT		

AVI 104 ADVANCED FLIGHT.
PREREQUISITE: AVI. 102 AND 103, CONSENT OF DIRECTOR.
3 HOURS
NOTE: DEPARTMENTAL APPROVAL BY CHIEF OF PILOT TRAINING IS REQUIRED.

02343	LECT-DISC	A	10	MTUWTHF	423	E H		EMANUEL
02351	LECT-DISC	B	2	MTUWTHF	423	E H		
02360	FLT	F1	8-930	MTUWTHFS		AIRPORT		GORDON AND
02378	FLT	F2	930-11	MTUWTHFS		AIRPORT		STAFF
02386	FLT	F3	11-1230	MTUWTHFS		AIRPORT		
02394	FLT	F4	1230-2	MTUWTHFS		AIRPORT		
02407	FLT	F5	2-330	MTUWTHFS		AIRPORT		
02415	FLT	F6	330-5	MTUWTHFS		AIRPORT		

*THE FOLLOWING 104 SECTIONS ARE AVAILABLE ONLY TO STUDENTS CONCURRENTLY ENROLLED IN AVIATION 103. A STUDENT MUST SELECT THE SECTION WITH THE SAME NUMBER AS THE 103 SECTION THAT HE HAS SELECTED.

02423	FLT	X1	8-1130	TUW F		AIRPORT		GORDON &
02431	FLT	X2	130-530	TUW F		AIRPORT		STAFF
02440	FLT	X3	8-1130	M TH S		AIRPORT		
02458	FLT	X4	130-530	M WTH		AIRPORT		

AVI 110 SOARING, I.
1 HOUR
NOTE: DEPARTMENTAL APPROVAL BY CHIEF OF PILOT TRAINING IS REQUIRED.

02466	DISC		ARR			AIRPORT		BENN & STAFF
02474	FLT	S1	8-1130	TU TH		AIRPORT		
02482	FLT	S2	1230-5	TU TH		AIRPORT		

AVI 111 SOARING, II.
PREREQUISITE: AVI. 110 OR EQUIVALENT.
1 HOUR
NOTE: DEPARTMENTAL APPROVAL BY CHIEF OF PILOT TRAINING IS REQUIRED.

02491	DISC		ARR			AIRPORT		BENN & STAFF
02503	FLT	S1	8-1130	TU TH		AIRPORT		
02511	FLT	S2	1230-5	TU TH		AIRPORT		

COURSES FOR ADVANCED UNDERGRADUATES

AVI 205 FLIGHT INSTRUCTOR.
PREREQUISITE: COMMERCIAL PILOT CERTIFICATE, JUNIOR STANDING, CONSENT OF DIRECTOR.
3 HOURS
NOTE: DEPARTMENTAL APPROVAL BY CHIEF OF PILOT TRAINING IS REQUIRED.

02520	LECT-DISC		9	MTUWTHF	400	E H		EMANUEL
02538	FLT	F3	11-1230	MTUWTHFS		AIRPORT		GORDON &
02546	FLT	F4	1230-2	MTUWTHFS		AIRPORT		STAFF
02554	FLT	F5	2-330	MTUWTHFS		AIRPORT		
02562	FLT	F6	330-5	MTUWTHFS		AIRPORT		

AVI 206 BASIC INSTRUMENT FLIGHT TECHNIQUES.
PREREQUISITE: COMMERCIAL PILOT CERTIFICATE, OR EQUIVALENT FLIGHT EXPERIENCE, JUNIOR STANDING, CONSENT OF DIRECTOR.
3 HOURS
NOTE: DEPARTMENTAL APPROVAL BY CHIEF OF PILOT TRAINING IS REQUIRED.

02571	LECT-DISC		1	MTUWTHF	161	E E B		JAMISON
02589	FLT	F1	8-930	MTUWTHFS		AIRPORT		GORDON &
02597	FLT	F2	930-11	MTUWTHFS		AIRPORT		STAFF
02600	FLT	F3	11-1230	MTUWTHFS		AIRPORT		
02618	FLT	F6	330-5	MTUWTHFS		AIRPORT		

AVI 207 ADVANCED INSTRUMENT FLIGHT PROCEDURES.
PREREQUISITE: AVI. 206 OR 40 HOURS OF SIMULATED INSTRUMENT FLIGHT EXPERIENCE, JUNIOR STANDING CONSENT OF DIRECTOR.
3 HOURS
NOTE: DEPARTMENTAL APPROVAL BY CHIEF OF PILOT TRAINING IS REQUIRED.

02626	LECT-DISC		750	MTUWTHF	423	E H		EMANUEL
02634	FLT	F2	930-11	MTUWTHFS		AIRPORT		GORDON &
02642	FLT	F3	11-1230	MTUWTHFS		AIRPORT		STAFF
02651	FLT	F4	1230-2	MTUWTHFS		AIRPORT		
02669	FLT	F5	2-330	MTUWTHFS		AIRPORT		
02677	FLT	F6	330-5	MTUWTHFS		AIRPORT		

AVI 291 SPECIAL RATINGS AND/OR SPECIALIZED FLIGHT.
PREREQUISITE: COMMERCIAL PILOT CERTIFICATE, CONSENT OF DIRECTOR.
1 HOUR
NOTE: DEPARTMENTAL APPROVAL BY CHIEF OF PILOT TRAINING IS REQUIRED.

02685	DISC		ARR		AIRPORT	BENN & STAFF
02693	FLT	F1	8-930	MTUWTHFS	AIRPORT	
02706	FLT	F2	930-11	MTUWTHFS	AIRPORT	
02714	FLT	F3	11-1230	MTUWTHFS	AIRPORT	
02722	FLT	F4	1230-2	MTUWTHFS	AIRPORT	
02731	FLT	F5	2-330	MTUWTHFS	AIRPORT	
02749	FLT	F6	330-5	MTUWTHFS	AIRPORT	

AVI 292 SPECIAL RATING (MULTI-ENGINE LAND).
PREREQUISITE: COMMERCIAL PILOT CERTIFICATE, CONSENT OF DIRECTOR.
1 HOUR
NOTE: DEPARTMENTAL APPROVAL BY CHIEF OF PILOT TRAINING IS REQUIRED.

02757	DISC		ARR		AIRPORT	BENN & STAFF
02765	FLT	F1	8-930	MTUWTHFS	AIRPORT	
02773	FLT	F2	930-11	MTUWTHFS	AIRPORT	
02781	FLT	F3	11-1230	MTUWTHFS	AIRPORT	
02790	FLT	F4	1230-2	MTUWTHFS	AIRPORT	
02802	FLT	F5	2-330	MTUWTHFS	AIRPORT	
02811	FLT	F6	330-5	MTUWTHFS	AIRPORT	

BUS SCHEDULE AND ROUTE

THE INSTITUTE OF AVIATION BUS MAKES REGULAR TRIPS BETWEEN THE AIRPORT AND THE CAMPUS BEGINNING ON THE FIRST DAY OF CLASSES AND CONTINUING THROUGH THE LAST DAY OF FINAL EXAMINATIONS. THE BUS LEAVES FROM THE CAMPUS PARKING LOCATION AT THE NORTH EAST CORNER OF AERO LAB B, AND MAKES REGULAR STOPS ON THE WAY TO THE AIRPORT AT THE CORNERS OF SIXTH AND ARMORY STREETS, FOURTH STREET AND GREGORY DRIVE, AND FIRST STREET AND GREGORY DRIVE. THE TRIP FROM THE AIRPORT BACK TO THE CAMPUS IS VIA GREGORY DRIVE AND GOODWIN AVENUE TO THE PARKING LOCATION. THE SCHEDULE IS AS FOLLOWS:

AVI 302 BUS FROM CAMPUS TO AIRPORT.
NO CREDIT

02829	BUS	A1	730-8	MTUWTHFS	CAMPUS
02837	BUS	A2	9-930	MTUWTHFS	CAMPUS
02845	BUS	A3	1030-11	MTUWTHFS	CAMPUS
02853	BUS	A4	12-1230	MTUWTHFS	CAMPUS
02861	BUS	A5	130-2	MTUWTHFS	CAMPUS
02870	BUS	A6	3-330	MTUWTHFS	CAMPUS

AVI 303 BUS FROM AIRPORT TO CAMPUS.
NO CREDIT

02888	BUS	C1	930-10	MTUWTHFS	AIRPORT
02896	BUS	C2	1130-12	MTUWTHFS	AIRPORT
02909	BUS	C3	1230-1	MTUWTHFS	AIRPORT
02917	BUS	C4	2-230	MTUWTHFS	AIRPORT
02925	BUS	C5	330-4	MTUWTHFS	AIRPORT
02933	BUS	C6	530-6	MTUWTHFS	AIRPORT

BANDS

DEPARTMENT OFFICE 140 BAND

THE SUMMER SESSION BAND IS OPEN TO STUDENTS WHO HAVE BEEN MEMBERS OF THE UNIVERSITY BANDS DURING THE ACADEMIC YEAR, AND TO OTHER STUDENTS, BOTH MEN AND WOMEN, WHO MAY QUALIFY BY PLAYING EXAMINATION. FINAL SELECTION OF MEMBERSHIP IS BY INSTRUMENTATION AND PROFICIENCY. CANDIDATES SHOULD REPORT TO THE BANDS OFFICE, 140 BAND BUILDING, DURING THE REGISTRATION PERIOD FOR ENROLLMENT AND/OR APPOINTMENTS FOR AUDITIONS. REHEARSALS WILL BE HELD FROM 7:15 TO 8:45 MONDAY AND WEDNESDAY IN ROOM 141, BAND BUILDING, AND A SERIES OF TWILIGHT CONCERNTS WILL BE SCHEDULED. CONDUCTOR--MR. GUY DUKER.

BIOLOGY

DEPARTMENT OFFICE 393 MOR HALL

HONORS MAJOR IN BIOLOGY - SEE UNDERGRADUATE COURSES BULLETIN.

GENERAL MAJOR IN BIOLOGY: BIOLOGY 110, 111 AND AN ADDITIONAL TWENTY HOURS OF COURSES AT THE 200 AND 300 LEVEL OFFERED WITHIN THE SCHOOL OF LIFE SCIENCES, CHOSEN IN CONSULTATION WITH THE ADVISER, AND INCLUDING AT LEAST ONE OF THE FOLLOWING: BIOLOGY 210, MICROBIOLOGY 200 AND 201, OR PHYSIOLOGY 301 AND 303. STUDENTS ARE ALSO REQUIRED TO COMPLETE A YEAR OF PHYSICS, CHEMISTRY THROUGH ORGANIC, AND MATHEMATICS THROUGH ANALYTIC GEOMETRY. CALCULUS AND BIOCHEMISTRY ARE STRONGLY RECOMMENDED.

COURSES FOR UNDERGRADUATES

BIOL 101 BIOLOGICAL SCIENCE, II.
PREREQUISITE: BIOL. 100 OR CONSENT OF INSTRUCTOR.
4 HOURS

02941	CONF		9	M	228	N H B	KIEFFER
	QUIZ		ARR				KIEFFER

COURSES FOR ADVANCED UNDERGRADUATES

BIOL 211 DEVELOPMENTAL BIOLOGY.
PREREQUISITE: BIOL. 110-111 OR EQUIVALENT; CHEM. 133 OR 234.
4 HOURS

02950	LECT		1	MTUWTH	202	H H	STOCUM
02968	LAB-DISC	A	2-4	M	231	N H B	
02976	LAB-DISC	B	2-4	W	231	N H B	
02984	LAB-DISC	C	2-4	F	231	N H B	

COURSES FOR GRADUATES

BIOL 490 SPECIAL TOPICS IN BIOLOGY.
1/2 TO 2 UNITS

02992	CONF	ARR	STAFF

BIOL 499 THESIS RESEARCH.
0 TO 4 UNITS

03007	CONF	ARR	STAFF

BIOPHYSICS

DEPARTMENT OFFICE 524 BUR HALL

COURSES FOR GRADUATES

BIOPH 410 SPECIAL TOPICS IN BIOPHYSICS.
PREREQUISITE: BIOPH. 401 OR EQUIVALENT, BIOPH. 402 AND 403.
1/2 TO 1 UNIT
03015 CONF ARR STAFF

BIOPH 491 INDIVIDUAL TOPICS.
PREREQUISITE: GRADUATE STANDING; CONSENT OF INSTRUCTOR.
1/2 TO 2 UNITS
03023 CONF ARR STAFF

BIOPH 499 THESIS RESEARCH.
0 TO 2 UNITS
03031 CONF ARR STAFF

BOTANY

DEPARTMENT OFFICE 297 MOR HALL

MAJOR: TWENTY HOURS OF BOTANY EXCLUDING BOTANY 100, 101, BIOL. 110, 111, BIOL. 100 AND 101, BUT INCLUDING BOT. 260, 304, 330, AND 335 OR THEIR EQUIVALENT. THE BALANCE OF THE MINIMUM OF TWENTY HOURS MUST BE TAKEN IN OTHER 300 LEVEL COURSES. BIOL. 210 AND 381 ARE STRONGLY RECOMMENDED. IN ADDITION ONE SEMESTER EACH OF ORGANIC CHEMISTRY, PHYSICS AND ZOOLOGY WILL BE REQUIRED. ONE ADDITIONAL SEMESTER OF PHYSICAL SCIENCE IS ALSO REQUIRED, BUT THIS MAY BE SELECTED FROM COURSES IN PHYSICS OR GEOLOGY. CREDIT NOT TO EXCEED TWO HOURS IN BIOL. 203 MAY BE INCLUDED IN THE TWENTY HOURS OF CREDIT FOR THE MAJOR.

MINORS: TWENTY HOURS IN ONE OR TWO SUBJECTS CHOSEN IN CONSULTATION WITH THE CHAIRMAN OF THE DEPARTMENT FROM THE FOLLOWING: AGRONOMY, CHEMISTRY, ENTOMOLOGY, GEOGRAPHY, GEOLOGY, HORTICULTURE, MATHEMATICS, MICROBIOLOGY, PHYSICS, PHYSIOLOGY, PLANT PATHOLOGY, AND ZOOLOGY. AT LEAST EIGHT HOURS MUST BE TAKEN IN EACH SUBJECT IF TWO ARE CHOSEN.

IF HORTICULTURE IS CHOSEN AS A MINOR, NOT MORE THAN TEN HOURS MAY BE COUNTED. THE TEN HOURS MAY BE CHOSEN FROM HORT. 100, 110, 230, OR 233, 242, 262, AND 321 OR 322.

NOTE: ATTENTION IS CALLED TO ADDITIONAL COURSE OFFERINGS LISTED UNDER BIOLOGY.

COURSES FOR ADVANCED UNDERGRADUATES

BOT 293 HONORS.
PREREQUISITE: FIFTEEN HOURS OF BOTANY, SENIOR STANDING.
2 HOURS
03040 CONF & ARR STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

BOT 300 INDIVIDUAL TOPICS.
PREREQUISITE: BOT. 100, TEN HOURS OF ADVANCED WORK IN BOTANY OR ANOTHER BIOLOGICAL SCIENCE, SENIOR STANDING.
*GRADUATE STUDENTS MAY OFFER 1 UNIT TOWARD M. S.
*2 TO 5 HOURS, OR 1/4 OR 1/2 UNIT
03058 CONF ARR STAFF

BOT 304 GENERAL PLANT MORPHOLOGY.
PREREQUISITE: BOT. 100 OR BIOL. 110 AND 111, OR BIOL. 100 AND 101, OR BIOL. 151 AND 251 OR CONSENT OF INSTRUCTOR.
4 HOURS OR 1 UNIT

03066	LECT	1	MTUWTHF	306	N H B		HOFFMAN
	LAB	2	M W F	306	N H B		HOFFMAN
		2-4	TU TH	306	N H B		HOFFMAN

BOT 345 PLANT ANATOMY.
PREREQUISITE: ONE YEAR OF BOTANY.
4 HOURS OR 1 UNIT

03074	LECT	8	MTUWTHF	306	N H B		CAROTHERS
	LAB	9	MTUWTH	306	N H B		CAROTHERS
		9-12	F	306	N H B		CAROTHERS

BOT 366 FIELD BOTANY.
PREREQUISITE: ONE COURSE IN BOTANY, CONSENT OF INSTRUCTOR.
3 OR 5 HOURS, OR 1/2 OR 1 UNIT
*FIELD TRIPS. TWO HOURS TO BE ARRANGED.

03082	LECT	*1-3	M W F	304	N H B		MILLER
	LAB	*1-5	TH	258	N H B		MILLER

COURSES FOR GRADUATES

BOT 493 ADVANCED STUDIES IN BOTANY.
* NOT MORE THAN 1 UNIT MAY BE APPLIED TOWARD THE GRADUATE COLLEGE M.S. DEGREE REQUIREMENT OF 3 UNITS OF COURSE WORK.
*1/2 TO 2 UNITS
WORK MAY BE TAKEN IN THE FOLLOWING FIELDS:

A--ANATOMY	CAROTHERS, PAOLILLO
B--BIOCHEMICAL CYTOLOGY	STEFFENSEN
C--BIOLOGICAL RHYTHMS	SARGENT
D--CYTOGENETICS & SPECIATION	DEWET
E--ECOLOGY	BAZZAZ, HANEY
F--GENETICS	LAUGHNAN, TUVESON, SARGENT
G--MORPHOGENESIS	PAOLILLO
H--MORPHOLOGY	CAROTHERS, PHILLIPS,
I--MYCOLOGY	ROGERS, TUVESON
J--PALEOBOTANY	PHILLIPS
K--PHOTOSYNTHESIS	GOVINDJEE, SYBESMA
L--PHYCOLOGY	HOFFMAN
M--PHYSIOLOGY	BOYER, GOVINDJEE, HANSON NANCE AND SARGENT
N--TAXONOMY	JONES, PAYNE
O--ULTRASTRUCTURE	CAROTHERS, HOFFMAN, AND PAOLILLO
P--VIROLOGY	BLACK, MACLEOD, REICHMAN

03091	LAB	ARR					STAFF

BOT 499 THESIS RESEARCH.
0 TO 2 UNITS

03103	LAB	ARR					STAFF

BUSINESS

DEPARTMENT OFFICE 350 COM W

COURSES FOR GRADUATES

BUS 499 THESIS RESEARCH
0 TO 2 UNITS

03111	CONF	ARR					

DEPARTMENT OF BUSINESS ADMINISTRATION--350 COM W

COURSES FOR ADVANCED UNDERGRADUATES

B ADM 200 THE LEGAL ENVIRONMENT OF BUSINESS.
PREREQUISITE: JUNIOR STANDING.
3 HOURS
03120 LECT-DISC C 10 MTUWTHFS 126 COM W INGERSOLL

B ADM 201 BASIC PRINCIPLES OF BUSINESS LAW.
PREREQUISITE: JUNIOR STANDING; ACCY. 105; ECON. 102.
*CREDIT TOWARD GRADUATION IS NOT GIVEN FOR B. ADM. 201 IN ADDITION TO B. ADM. 261.
3 HOURS
03138 LECT-DISC A 8 MTUWTHFS 126 COM W

B ADM 202 PRINCIPLES OF MARKETING.
PREREQUISITE: ECON. 172 OR EQUIVALENT.
*STUDENTS ARE NOT GIVEN CREDIT FOR BOTH B. ADM. 202 AND B. ADM. 272.
*3 HOURS
03146 LECT-DISC C 10 MTUWTHFS 245 COM W

B ADM 210 MANAGEMENT AND ORGANIZATIONAL BEHAVIOR.
PREREQUISITE: JUNIOR STANDING.
*A STUDENT WILL NOT RECEIVE CREDIT FOR B. ADM. 210 AND B. ADM. 247.
*3 HOURS
03154 LECT-DISC B 9 MTUWTHFS 245 COM W ALBANESE

B ADM 261 SUMMARY OF BUSINESS LAW.
FOR NON-COMMERCE STUDENTS ONLY.
PREREQUISITE: JUNIOR STANDING.
*CREDIT TOWARD GRADUATION IS NOT GIVEN FOR B. ADM. 261 IN ADDITION TO B. ADM. 201.
*3 HOURS
03162 LECT-DISC A 8 MTUWTHFS 108 D K H KIRKPATRICK

B ADM 294 SENIOR RESEARCH.
PREREQUISITE: CUMULATIVE GRADE POINT AVERAGE OF 4.0 OR HONORS IN THE JUNIOR YEAR OR CONSENT OF INSTRUCTOR. SENIOR STANDING.
2 TO 4 HOURS
03171 LECT-DISC B 9 MTUWTHFS 126 COM W

B ADM 295 SENIOR RESEARCH.
PREREQUISITE: CUMULATIVE GRADE POINT AVERAGE OF 4.0 OR HONORS IN THE JUNIOR YEAR. SENIOR STANDING.
2 TO 4 HOURS
03189 CONF ARR

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

B ADM 320 MARKETING RESEARCH.
PREREQUISITE: B. ADM. 202.
3 HOURS OR 1/2 UNIT
03197 LECT-DISC D 11 MTUWTHFS 126 COM W

B ADM 373 ELECTRONIC DATA PROCESSING FOR BUSINESS.
PREREQUISITE: ECON. 170, ACCY. 106 OR 108.
3 HOURS, OR 1/2 OR 1 UNIT
03200 LECT-DISC C 10 MTUWTHFS 36 COM W

B ADM 374 OPERATIONS RESEARCH.
PREREQUISITE: ECON. 173 AND B. ADM. 210, OR CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 OR 1 UNIT
03218 LECT-DISC E 1-3 MTU THF 91 COM W

B ADM 448 PROBLEMS OF PERSONNEL MANAGEMENT.
SAME AS L. I. R. 448.
PREREQUISITE: B. ADM. 248 OR EQUIVALENT, CONSENT OF INSTRUCTOR.
1 UNIT

03226	LECT-DISC	8-10	TU TH	94	COM W	ROWLAND

B ADM 490 SEMINAR IN MARKETING.
1 UNIT

03234	CONF	ARR				

B ADM 493 RESEARCH IN SPECIAL FIELDS.
1/4 TO 2 UNITS

03242	LECT-DISC	10-12	M W	94	COM W	GARDNER

B ADM 499 THESIS RESEARCH.
0 TO 2 UNITS

03251	CONF	ARR				

B ADM 511 BUSINESS ORGANIZATION.
PREREQUISITE: B. ADM. 510.
3/4 UNIT

03269	LECT-DISC	8-10	MTUWTH	170	COM W	

B ADM 543 LEGAL PROBLEMS OF BUSINESS MANAGEMENT.
PREREQUISITE: COMPLETION OF THE FIRST YEAR OF THE M. B. A. PROGRAM OR EQUIVALENT.
3/4 UNIT

03277	LECT-DISC	8-10	MTU THF	36	COM W	BLACK

B ADM 551 FINANCIAL ANALYSIS.
PREREQUISITE: COMPLETION OF FIRST SEMESTER OF M. B. A. PROGRAM.
3/4 UNIT

03285	LECT-DISC	10-12	MTU THF	170	COM W	HOWE

B ADM 572 MODERN AND CLASSICAL STATISTICS FOR BUSINESS DECISIONS.
3/4 UNIT

03293	LECT-DISC	3-5	MTUWTH	245	COM W	LEVY

B ADM 573 INTRODUCTION TO OPERATIONS RESEARCH.
PREREQUISITE: B. ADM. 572 AND FIRST YEAR OF M.B.A. PROGRAM.
3/4 UNIT

03306	LECT-DISC	1-3	MTU THF	245	COM W	ABRAMS

B ADM 575 BUSINESS SIMULATION.
PREREQUISITE: B. ADM. 573.
3/4 UNIT

03314	LECT-DISC	10-12	MTU THF	160	COM W	EVANS

B ADM 590 INDEPENDENT STUDY AND RESEARCH.
1/2 TO 1 UNIT

03322	CONF	ARR				

B ADM 599 THESIS RESEARCH.
0 TO 2 UNITS

03331	CONF	ARR				

CERAMIC ENGINEERING

DEPARTMENT OFFICE 203 CER

COURSES FOR ADVANCED UNDERGRADUATES

CER E 298 SPECIAL PROBLEM.
PREREQUISITE: SENIOR STANDING.
1 TO 2 HOURS
03349 CONF ARR CER

CER E 299 SENIOR THESIS.
PREREQUISITE: SENIOR STANDING AND A GRADE POINT AVERAGE OF 4.0 OR BETTER.
*STUDENTS MAY REGISTER MORE THAN ONCE FOR A MAXIMUM OF FIVE HOURS. TO RECEIVE CREDIT, A THESIS MUST BE PRESENTED.
*1 TO 5 HOURS
03357 CONF ARR CER

COURSES FOR GRADUATES

CER E 495 MATERIALS AND SPECIAL PROBLEMS.
PREREQUISITE: GRADUATE STANDING IN CERAMIC ENGINEERING.
0 TO 2 UNITS
03365 CONF ARR CER STAFF
INSTRUCTORS-BERGERON, BROWN, FRIEDBERG, NELSON, WILLMORE, WILLIAMS, WIRTZ.

CER E 499 THESIS RESEARCH.
PREREQUISITE: CER. E. 311, GRADUATE STANDING IN CERAMIC ENGINEERING.
0 TO 2 UNITS
03373 CONF ARR CER STAFF
INSTRUCTORS-BERGERON, BROWN, FRIEDBERG, NELSON, WILLMORE, WILLIAMS, WIRTZ.

CHEMISTRY AND CHEMICAL ENGINEERING

DEPARTMENT OFFICE 106 N L

CHEMISTRY CURRICULUM: SEE UNDERGRADUATE STUDY CATALOG.

CHEMISTRY MAJORS IN THE SCIENCES AND LETTERS CURRICULUM: SEE UNDERGRADUATE COURSES CATALOG.

CHEMISTRY

NOTE: THE GENERAL CHEMISTRY PROGRAM HAS BEEN OVERHAULED. THE NORMAL FIRST YEAR SEQUENCE FOR NON-MAJORS IS NOW CHEM. 101 THE FIRST SEMESTER AND CHEM. 102 THE SECOND SEMESTER. STUDENTS WHO HAD CHEM. 102 BEFORE THE FALL OF 1967 HAD A FIRST SEMESTER COURSE AND SHOULD NOT INFER THAT THEY HAVE HAD CHEM. 102 AS NOW GIVEN. WE SHALL DESIGNATE CHEM. 102 (FORMER) AND CHEM. 102 (NEW) TO DISTINGUISH THE TWO AMONG PREREQUISITES.

COURSES FOR UNDERGRADUATES

CHEM 101 GENERAL CHEMISTRY.
FOR STUDENTS WHO HAVE SOME PRIOR KNOWLEDGE OF CHEMISTRY.
PREREQUISITE: CREDIT FOR OR EXEMPTION FROM MATH. 111 OR 112.
4 HOURS
NOTE: CHEMISTRY 101 WILL REPLACE PREVIOUS COURSES LABELED CHEMISTRY 101 AND 102.
LECTURE ON CLOSED CIRCUIT TELEVISION.

03381	LECT	2	MTUWTH	205	E B
	QUIZ	8	MTUWTH	210	C A
	LAB	9-12	TU TH	201	C A

CHEM 102 GENERAL CHEMISTRY.
PREREQUISITE: CHEM. 101, OR FORMER 102, OR 107, OR 111, OR ADVANCED PLACEMENT CREDIT FOR ONE SEMESTER OF COLLEGE LEVEL CHEMISTRY.
4 HOURS
NOTE: CHEMISTRY 102 WILL REPLACE PREVIOUS COURSES LABELED CHEMISTRY 104, 105 AND 109.
LECTURE ON CLOSED CIRCUIT TELEVISION.

03390	LECT		1	MTUWTH	112	C A	
03402	QUIZ	2	8	MTUWTH	162	N L	
	LAB	2	9-12	TU TH	201	C A	
03411	QUIZ	3	8	MTUWTH	8	C A	
	LAB	3	9-12	TU TH	201	C A	
03429	QUIZ	4	8	MTUWTH	9	C A	
	LAB	4	9-12	TU TH	201	C A	

CHEM 122 ELEMENTARY QUANTITATIVE ANALYSIS.
FOR ALL STUDENTS IN HOME ECONOMICS AND PREMEDICAL COURSES AND ALL OTHERS WHO HAVE NOT FOLLOWED THE SEQUENCE CHEM. 101 OR 102, 107 AND 108.
PREREQUISITE: NEW CHEM. 102 OR FORMER CHEM. 104, 105, OR 109.
5 HOURS

03437	LECT		8	MTU THF	101	E C	HARTLEY
	QUIZ		8	W S	101	E C	
	LAB		9-12	MTUWTHFS	301	C A	

CHEM 133 ELEMENTARY ORGANIC CHEMISTRY.
FOR STUDENTS IN AGRICULTURAL SCIENCE, DAIRY TECHNOLOGY, FOOD TECHNOLOGY, NUTRITION, DIETETICS, PREMEDICAL, PREDENTAL AND PREVETERINARY COURSES.
PREREQUISITE: NEW CHEM. 102, OR 108, OR FORMER CHEM. 104, 105, OR 109.
*NO CREDIT WILL BE GIVEN IN CHEM. 133 TO THOSE STUDENT WITH CREDIT IN CHEM. 234.
*5 HOURS

03445	LECT		9	MTUWTHFS	112	C A	SLOCUM
	QUIZ		10	M W	112	C A	NECKERS
	LAB		1-5	M W	467	N L	

CHEM 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS

03453	CONF		ARR				STAFF

COURSES FOR ADVANCED UNDERGRADUATES

CHEM 290 THESIS.
*A MAXIMUM OF TEN HOURS MAY BE COUNTED TOWARDS GRADUATION AND A THESIS MUST BE PRESENTED FOR CREDIT TO BE RECEIVED.
*2 TO 6 HOURS

03461	CONF		ARR				STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

CHEM 315 INORGANIC CHEMISTRY.
PREREQUISITE: CREDIT OR REGISTRATION IN PHYSICAL CHEMISTRY.
3 HOURS OR 3/4 UNIT

03470	LECT		11	MTUWTHF	138	ADMIN	
			4	TU	138	ADMIN	

CHEM 342 PHYSICAL CHEMISTRY.
TO BE TAKE CONCURRENTLY WITH CHEM. 383.
PREREQUISITE: CHEM. 108, 122, 123, OR EQUIVALENT, PHYCS. 106, 107, AND 108, OR TWO SEMESTERS OF GENERAL PHYSICS WITH CONCURRENT REGISTRATION IN THE THIRD SEMESTER, CREDIT OR REGISTRATION IN MATH 142 OR EQUIVALENT. STUDENTS SHOULD NOT REGISTER IN 342 WHO DO NOT INTEND TO ENROLL IN 344.
3 HOURS OR 3/4 UNIT

03488	LECT		9	MTUWTHFS	138	ADMIN	

CHEM 397 RADIOCHEMISTRY.
SAME AS NUC. E. 397.
PREREQUISITE: ONE SEMESTER OF PHYSICAL CHEMISTRY, OR ONE SEMESTER OF ATOMIC PHYSICS, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 3/4 UNIT
*ONE ADDITIONAL HOUR TO BE ARRANGED.

03496	LECT		*9	MTUWTHFS	101	E C	HUMMEL

COURSES FOR GRADUATES

CHEM 434 ADVANCED ORGANIC SYNTHESIS.
1/4 TO 1 UNIT
03509 LAB ARR

CHEM 490 SPECIAL TOPICS IN CHEMISTRY.
PREREQUISITE: CONSENT OF INSTRUCTOR AND HEAD OF DEPARTMENT.
1/4 TO 4 UNITS
03517 CONF ARR STAFF

CHEM 499 THESIS RESEARCH.
0 TO 2 UNITS
03525 CONF ARR STAFF

BIOCHEMISTRY

COURSES FOR UNDERGRADUATES

BIOCH 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS
03533 CONF ARR STAFF

COURSES FOR ADVANCED UNDERGRADUATES

BIOCH 290 THESIS.
PREREQUISITE: BIOCH. 350 AND 355. EACH STUDENT WHO DESIRES TO DO THESIS RESEARCH MUST RECEIVE WRITTEN PERMISSION FROM A MEMBER OF THE BIOCHEMISTRY FACULTY. ACCORDINGLY, PROSPECTIVE STUDENTS ARE ENCOURAGED TO CONTACT THE BIOCHEMISTRY STAFF IN THE SEMESTER PRIOR TO REGISTRATION IN THIS COURSE. REGISTRATION FOR A TOTAL OF 10 HOURS OVER 2 SEMESTERS IS EXPECTED.
*IN ORDER TO RECEIVE CREDIT A THESIS MUST BE PRESENTED BY EACH STUDENT REGISTERED IN BIOCH. 290.
*4 TO 6 HOURS
03541 CONF ARR STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

BIOCH 350 GENERAL BIOCHEMISTRY.
PREREQUISITE: QUANTITATIVE ANALYTICAL CHEMISTRY AND CHEM. 133 OR 234, OR EQUIVALENTS.
3 HOURS OR 3/4 UNIT
03550 LECT 8 MTUWTHFS 32 PSYCH BLDG

BIOCH 355 BIOCHEMISTRY LABORATORY.
PREREQUISITE: QUANTITATIVE ANALYTICAL CHEMISTRY AND CHEM. 133 OR 234, OR EQUIVALENT; REGISTRATION IN BIOCH. 350.
4 HOURS OR 1 UNIT
03568 LAB 9-12 MTUWTHF 318 E C

COURSES FOR GRADUATES

BIOCH 499 THESIS RESEARCH.
0 TO 2 UNITS
03576 CONF ARR STAFF

CHEMICAL ENGINEERING

COURSES FOR UNDERGRADUATES

CH E 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS
03584 CONF ARR STAFF

COURSES FOR ADVANCED UNDERGRADUATES

CH E 290 THESIS.
LIMITED IN GENERAL TO SENIORS IN THE CHEMICAL ENGINEERING CURRICULUM. ANY OTHERS MUST HAVE THE CONSENT OF THE HEAD OF THE DEPARTMENT.
*EACH STUDENT MUST REGISTER IN A MINIMUM OF FIVE HOURS EITHER IN ONE SEMESTER OR DIVIDED OVER TWO SEMESTERS. A MAXIMUM REGISTRATION OF TEN HOURS IN TWO SEMESTERS IS PERMITTED. HOWEVER, CH. E. 379 TWO HOURS, MAY BE SUBSTITUTED FOR TWO OF THE FIVE HOURS REQUIRED IN CH. E. 290. IN ORDER TO RECEIVE CREDIT, A THESIS MUST BE PRESENTED BY EACH STUDENT REGISTERED IN CH. E. 290.
*2 TO 6 HOURS
03592 CONF ARR STAFF

COURSES FOR GRADUATES

CH E 469 SPECIAL TOPICS IN CHEMICAL ENGINEERING.
PREREQUISITE: CH. E. 464.
*THIS COURSE MAY BE REPEATED.
*3/4 OR 1 UNIT
03605 LECT 9 MTUWTH 193 E C SCHMITZ

CH E 499 THESIS RESEARCH.
0 TO 2 UNITS
INSTRUCTORS: ALKIRE, DRICKAMER, ECKERT, HANRATTY, HUDSON, QUINN, SANI, SCHMITZ, WESTWATER.
03613 CONF ARR STAFF

CIVIL ENGINEERING

DEPARTMENT OFFICE 203 E H

COURSES FOR ADVANCED UNDERGRADUATES

C E 262 STRUCTURAL THEORY, II.
PREREQUISITE: C. E. 261.
3 HOURS
*SECTION F IS A SPECIAL SECTION OF TWO-WEEK DURATION TO BE OFFERED FOR MILITARY OFFICERS DURING THE FOUR-WEEK PERIOD IMMEDIATELY FOLLOWING THE FORMAL SUMMER SESSION.
03621 LECT-DISC E 10 MTUWTHFS 161 E E B
03630 LECT-DISC *F ARR

C E 263 BEHAVIOR AND DESIGN OF METAL STRUCTURES, I.
PREREQUISITE: T. A. M. 224 AND C. E. 261, OR CONSENT OF INSTRUCTOR.
3 HOURS
03648 LECT-DISC E 9 MTUWTHFS 161 E E B

C E 264 REINFORCED CONCRETE DESIGN, I.
PREREQUISITE: C. E. 214, C. E. 261, T. A. M. 224.
3 HOURS
*NOTE: THREE TWO-HOUR DEMONSTRATION LABORATORIES TO BE ARRANGED.
03656 LECT-DISC *E 11 MTUWTHFS 161 E E B

C E 297 SPECIAL PROBLEMS.
PREREQUISITE: SENIOR STANDING.
1 TO 4 HOURS
03664 CONF ARR

C E 366 BEHAVIOR OF REINFORCED CONCRETE MEMBERS.
PREREQUISITE: FOR UNDERGRADUATES, SENIOR STANDING AND C. E. 264; FOR GRADUATES, B. S. DEGREE IN CIVIL ENGINEERING OR ARCHITECTURE WITH COURSES IN STRUCTURES AND REINFORCED CONCRETE DESIGN.
4 HOURS OR 1 UNIT

03672	LECT-DISC		10-12	M W F	162	E E B		

C E 368 PRESTRESSED CONCRETE.
PREREQUISITE: C. E. 262, 264.
3 HOURS, OR 3/4 OR 1 UNIT

03681	LECT-DISC	E	9	MTUWTHFS	162	E E B		

C E 383 SOIL MECHANICS.
PREREQUISITE: FOR UNDERGRADUATES: C. E. 210, SENIOR STANDING AND CONSENT OF INSTRUCTOR. GRADUATE PREREQUISITE: CONSENT OF INSTRUCTOR.
3 HOURS, CR 3/4 OR 1 UNIT

03699	LECT-DISC	E	3	MTUWTHFS	162	E E B		

C E 391 COMPUTER METHODS IN CIVIL ENGINEERING.
PREREQUISITE: C. S. 101 OR EQUIVALENT; SENIOR OR GRADUATE STANDING IN CIVIL ENGINEERING; OR CONSENT OF INSTRUCTOR.
3 HOURS, CR 1/2 OR 1 UNIT

03701	LECT-DISC	E	2	MTUWTHFS	162	E E B		

COURSES FOR GRADUATES

C E 465 STRUCTURAL DESIGN IN METALS.
PREREQUISITE: B. S. IN ENGINEERING WITH COURSES IN STRUCTURES.
1 UNIT

03710	LECT-DISC	E	1	MTUWTHF	162	E E B		

C E 471 NUMERICAL AND APPROXIMATE METHODS OF STRUCTURAL ANALYSIS.
1 TO 2 UNITS

03728	LECT-DISC	E	8-10	M W F	320	E H		

C E 484 FOUNDATION ENGINEERING.
PREREQUISITE: C. E. 384.
1 UNIT

03736	LECT-DISC		2-4	M W F	161	E E B		

C E 497 SPECIAL PROBLEMS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
0 TO 4 UNITS
*SECTION O--OTHERS.
*SECTION S--ADVANCED ANALYTICAL PHOTOGRAMMETRY - 2 UNITS.
*SECTION AE--AQUATIC ECOLOGY - 1/2 UNIT.
*SECTION SW--SOLID WASTES MANAGEMENT - 1/2 UNIT.

03744	CONF	*O	ARR					STAFF
03752	CONF	*S	9-11	MTUWTHF	212	WOODSHOP		KARARA
03761	CONF	*AE	ARR					LELAND
03779	CONF	*SW	ARR					PFEFFER

C E 499 THESIS RESEARCH.
0 TO 2 UNITS
*SECTION M IS FOR MASTERS DEGREE, SECTION D IS FOR PH.D. DEGREE.

03787	CONF	*M	ARR					STAFF
03795	CONF	*D	ARR					STAFF

CLASSICS

DEPARTMENT OFFICE 361 L H

SEE ALSO GREEK AND LATIN

CLASSICAL CIVILIZATION

NOTE: THE FOLLOWING COURSES PRESUPPOSE NO KNOWLEDGE OF THE GREEK OR LATIN LANGUAGE AND ARE OPEN TO ALL STUDENTS. FOR OTHER COURSES IN THE AREA OF CLASSICAL CIVILIZATION SEE ARCH. 113, ART 311, HIST. 181, 182, 381, 382, 383, AND 384, AND PHIL. 303, 309 AND 310.

COURSES FOR UNDERGRADUATES

CLCIV 111 MYTHOLOGY OF GREECE AND ROME.
2 HOURS

03808	LECT-DISC	A	9	MTUWTH	137	ADMIN
03816	LECT-DISC	B	2	MTUWTH	137	ADMIN

CLCIV 112 GREEK DRAMA IN ENGLISH TRANSLATION.
2 HOURS

03824	LECT-DISC	A	1	MTUWTH	362	L H

COURSES FOR GRADUATES

CLCIV 445 FIELD WORK IN CLASSICAL ARCHAEOLOGY.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

03832	LAB-DISC		ARR			ALLEN

COMMUNICATIONS

DEPARTMENT OFFICE 1207 W OREGON

THE GRADUATE PROGRAM LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY IN COMMUNICATIONS IS ADMINISTERED BY AN INTERDISCIPLINARY COMMITTEE APPOINTED BY THE DEAN OF THE COLLEGE OF COMMUNICATIONS. STUDENTS SEEKING ADMISSION TO THIS PROGRAM SHOULD CONSULT JAMES W. CAREY, CHAIRMAN OF THE COMMITTEE.

OF THE COURSES OFFERED THIS TERM, COMM. 490 AND 499 ARE IN THE GENERAL CATEGORY. COMM. 432, 462, 470, AND 473 ARE IN GROUP A; COMM. 351 IS IN GROUP B.

COURSES FOR GRADUATES

COMM 432 BOOKS AND LIBRARIES SINCE THE RENAISSANCE.
SAME AS LIB. S. 432.
1 UNIT

03841	LECT-DISC		3-5	M W	429 LIB	BURKE

COMM 462 SEMINAR IN RADIO AND TELEVISION.
SAME AS R. TV. 462.
1 UNIT

03859	LECT-DISC	G	3-5	M W	123	G H

COMM 470 COMMUNICATIONS AND POPULAR CULTURE.
SAME AS JOURN. 470.
PREREQUISITE: CONSENT OF THE COLLEGE OF COMMUNICATIONS.
1 UNIT

03867	LECT-DISC	E	1-3	TU TH	123 G H	SCHACHT

COMM 473 HISTORY AND THEORY OF FREEDOM OF THE PRESS.
SAME AS JOURN. 473.
PREREQUISITE: CONSENT OF THE COLLEGE OF COMMUNICATIONS.
1 UNIT
03875 LECT-DISC C 10-12 TU TH 123 G H JENSEN & STAF

COMM 482 RESEARCH METHODS IN ADVERTISING AND COMMUNICATIONS.
SAME AS ADV. 482.
PREREQUISITE: A BASIC COURSE IN STATISTICAL METHODS.
1 UNIT
03883 LECT-DISC E 1-3 M W 123 G H DUNN

COMM 490 SPECIAL TOPICS IN COMMUNICATIONS.
PREREQUISITE: CONSENT OF CHAIRMAN OF COMMITTEE ON GRADUATE
STUDY IN COMMUNICATIONS.
1/2 TO 2 UNITS
03891 CONF ARR STAFF

COMM 499 THESIS RESEARCH.
PREREQUISITE: CONSENT OF CHAIRMAN OF COMMITTEE ON GRADUATE STUDY
IN COMMUNICATIONS AND THESIS SUPERVISOR.
*STUDENTS MAY ACCUMULATE A TOTAL OF 8 UNITS.
*0 TO 2 UNITS
03904 CONF ARR STAFF

COMPARATIVE LITERATURE

DEPARTMENT OFFICE 401 L H

COURSES FOR GRADUATES

C LIT 451 SEMINAR IN LITERARY MOVEMENTS.
*STUDENTS MAY ACCUMULATE 3 UNITS.
*1 UNIT
03912 CONF ARR

C LIT 452 SEMINAR IN LITERARY RELATIONS.
SAME AS GER. 453.
*STUDENTS MAY ACCUMULATE THREE UNITS.
*1 UNIT
SECTION B TOPIC: PROBLEMS IN RELATIONS: GERMAN AND AMERICAN
LITERATURES IN THE 20TH CENTURY.
SECTION D TOPIC:THE TRANSLATOR AS LITERARY ARTIST AND INTERMEDIARY:
19TH AND 20TH CENTURY AMERICAN POETRY AND ITS GERMAN RENDERINGS.
03921 LECT-DISC B 9 TUWTH 154 ADMIN VISITING PROF
03939 LECT-DISC D 11 TUWTH 154 ADMIN HANS GALINSKY

C LIT 461 SEMINAR IN LITERARY FORMS.
*STUDENTS MAY ACCUMULATE 3 UNITS.
*1 UNIT
03947 LECT-DISC ARR

C LIT 462 SEMINAR IN LITERARY THEMES AND TYPES.
*STUDENTS MAY ACCUMULATE THREE UNITS.
*1 UNIT
TOPIC: CONCEPTS OF THEMATICS WITH SPECIAL REFERENCE TO EIGHTEENTH
CENTURY AUTHORS (ENGLISH, FRENCH, GERMAN).
03955 LECT-DISC 4-6 M 401 L H JOST

DEPARTMENT OFFICE 252 D C L

MAJOR IN MATHEMATICS AND COMPUTER SCIENCE

NOTE: THIS MAJOR IS OFFERED BY THE MATHEMATICS DEPARTMENT UNDER THE CURRICULUM IN SCIENCE AND LETTERS FOR STUDENTS OF MATHEMATICS WHO HAVE A SPECIAL INTEREST IN THE USE OF COMPUTERS.

MAJOR: MATH. 123, 132, 142 (OR 133, 143), 341, 342, 317, 318, 347, 348 (OR 361).

FIRST MINOR: C. S. 121, 201, 287 AND ONE OF COMPUTER SCIENCE 293, 294, 301 OR 311.

SECOND MINOR: AT LEAST EIGHT HOURS IN A SUBJECT APPROVED BY THE DEPARTMENT.

NOTE: IN SPECIAL CIRCUMSTANCES WITH THE CONSENT OF THE ADVISOR, OTHER 100-LEVEL BEGINNING COMPUTER SCIENCE COURSES MAY BE SUBSTITUTED FOR COMPUTER SCIENCE 121.

DISTINCTION IN MATHEMATICS AND COMPUTER SCIENCE: A STUDENT WHO SATISFIES THE FOLLOWING REQUIREMENTS MAY, UPON RECOMMENDATION OF THE DEPARTMENT OF MATHEMATICS AND OF COMPUTER SCIENCE, BE GRADUATED WITH DISTINCTION IN MATHEMATICS AND COMPUTER SCIENCE:

1. SATISFY THE LAS COLLEGE REQUIREMENTS FOR GRADUATION.
2. COMPLETE THE MINIMUM REQUIREMENT OF THE MAJOR IN MATHEMATICS AND COMPUTER SCIENCE WITH A GRADE POINT AVERAGE OF AT LEAST 4.25 IN ALL MATHEMATICS AND COMPUTER SCIENCE COURSES.
3. COMPLETE THREE HOURS OF ADDITIONAL COURSES CHOSEN FROM COMPUTER SICNECE 109, 209, 290, 301, 306, 311, 385, 387, 391, 392, 393, 394, 397.
4. REGISTER HIS CANDIDACY FOR DISTINCTION WITH HIS ADVISOR ND LATER THAN THE END OF HIS JUNICR YEAR.

COURSES FOR UNDERGRADUATES

C S 101 INTRODUCTION TO AUTOMATIC DIGITAL COMPUTING.
*STUDENTS MAY RECEIVE CREDIT FOR ONLY ONE OF THE FOLLOWING: C. S. 101, 103, 105, 107, OR 121.
*3 HOURS
GRADUATE STUDENTS DESIRING AN ELEMENTARY KNOWLEDGE OF PROGRAMMING SHOULD ENROLL IN COMPUTER SCIENCE 400.

03963	LECT	B	9	MTUWTH	151	E E B	RAY
03971	QUIZ	C	10	M W	105F	WOODSHOP	
03980	QUIZ	D	11	M W	105F	WOODSHOP	
03998	QUIZ	E	1	M W	105F	WOODSHOP	
04002	QUIZ	F	2	M W	105F	WOODSHOP	
04011	QUIZ	N	10	TU TH	105F	WOODSHOP	
04029	QUIZ	P	11	TU TH	105F	WOODSHOP	

C S 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS

04037	CONF		ARR				STAFF

COURSES FOR ADVANCED UNDERGRADUATES

C S 287 INTRODUCTION TO NUMERICAL ANALYSIS.
SAME AS MATH. 287.
PREREQUISITE: C. S. 101 OR 121, ONE YEAR OF CALCULUS, OR CONSENT OF INSTRUCTOR.
3 HOURS

04045	LECT-DISC	B1	9	MTUWTHF	144	P B	DAVIS
		B1	3	W	144	P B	DAVIS

C S 290 INDIVIDUAL STUDY.
PREREQUISITE: C. S. 101 OR 121; C. S. 201 OR 294; OR CONSENT OF INSTRUCTOR.
1 OR 2 HOURS
04053 DISC ARR STAFF

COURSES FOR GRADUATES

C S 400 INTRODUCTION TO AUTOMATIC DIGITAL COMPUTING FOR GRADUATE STUDENTS.
1 HOUR
04061 LECT-DISC R1 1 TU TH 144 P B FAIMAN

C S 490 INDIVIDUAL STUDY.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/2 TO 2 UNITS
04070 CONF ARR STAFF

C S 491 SEMINAR IN COMPUTER SCIENCE.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/2 TO 1 UNIT
*SECTION B TOPIC: ADVANCED THRESHOLD LOGIC. CREDIT--1 UNIT.
04088 CONF *B ARR MUROGA

C S 499 THESIS RESEARCH.
PREREQUISITE: CONSENT OF INSTRUCTOR.
0 TO 4 UNITS
*SECTION A IS FOR CANDIDATES FOR A MASTERS DEGREE.
*SECTION B IS FOR CANDIDATES FOR A PH.D. DEGREE.
04096 CONF *A ARR STAFF
04109 CONF *B ARR STAFF

DAIRY SCIENCE

DEPARTMENT OFFICE 315 A S L

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

D S 300 SPECIAL PROBLEMS.
PREREQUISITE: MINIMUM GRADE POINT AVERAGE OF 3.5; NOT OPEN TO STUDENTS ON PROBATION; SENIOR STANDING; CONSENT OF INSTRUCTOR AND HEAD OF DEPARTMENT.
1 TO 5 HOURS, OR 1/2 TO 1 UNIT
SPECIFIC APPROVAL OF THE ASSOCIATE DEAN IS REQUIRED IN ADVANCE OF REGISTRATION FOR A SECOND AND/OR THIRD SPECIAL PROBLEM COURSE.
*SECTION &B IS OPEN TO JAMES SCHOLARS AND OTHER STUDENTS HAVING A MINIMUM GRADE POINT AVERAGE OF 4.0 AND MAY BE TAKEN IN CONJUNCTION WITH OTHER COURSES IN THIS DEPARTMENT SUBJECT TO APPROVAL OF INSTRUCTOR.
04117 CONF A ARR HARSHBARGER
04125 CONF *&B ARR AND STAFF

COURSES FOR GRADUATES

D S 493 SPECIAL PROBLEMS.
1/2 TO 2 UNITS
04133 CONF ARR HARSHBARGER AND STAFF

D S 499 THESIS RESEARCH.
0 TO 2 UNITS
04141 CONF ARR HARSHBARGER AND STAFF

DAIRY TECHNOLOGY--SEE FOOD SCIENCE

DANCE

DEPARTMENT OFFICE 162 KRAN CENTER

PROFESSIONAL COURSES FOR UNDERGRADUATES

DANCE 160 BEGINNING TECHNIQUE.
*MAY BE REPEATED FOR A MAXIMUM OF 12 HOURS.
*2 HOURS

04150	LAB	D	11-1230	MTUWTHF	DANCE RHRSL KRAN	SIMONDS AND BLOSSOM

DANCE 162 IMPROVISATION, I.
1 HOUR

04168	LAB	F1	230-430	M W F	DANCE RHRSL KRAN	BLOM

DANCE 165 INTERMEDIATE TECHNIQUE.
PREREQUISITE: DANCE 160 OR CONSENT OF INSTRUCTOR.
*MAY BE REPEATED FOR A MAXIMUM OF 12 HOURS.
*2 HOURS

04176	LAB	E	1-230	MTUWTHF	DANCE RHRSL KRAN	SIMONDS

DANCE 166 BEGINNING BALLET, I.
PREREQUISITE: DANCE 160 OR CONSENT OF INSTRUCTOR.
*MAY BE REPEATED ONCE FOR CREDIT.
*1 HOUR

04184	LAB-DISC	B1	930-1045	MTUWTHF	DANCE RHRSL KRAN	APPLEBAUM

PROFESSIONAL COURSES FOR ADVANCED UNDERGRADUATES

DANCE 260 ADVANCED TECHNIQUE, I.
PREREQUISITE: DANCE 165 OR CONSENT OF INSTRUCTOR.
*MAY BE REPEATED FOR A MAXIMUM OF 12 HOURS.
*2 HOURS

04192	LAB	E	1-230	MTUWTHF	DANCE RHRSL KRAN	SIMONDS

ECONOMICS

DEPARTMENT OFFICE 330 COM W

MAJOR: TWENTY HOURS IN ECONOMICS, INCLUDING ECON. 108, OR 102 AND 103, 171, 300, AND 301. MATH. 124 AND 134 OR MATH. 132 ARE ALSO REQUIRED BUT ARE NOT ACCEPTABLE TOWARD THE TWENTY-HOUR MAJOR. LIBERAL ARTS MAJORS ARE STRONGLY ADVISED TO ELECT ACCY 201, WHICH IS NOT ACCEPTABLE TOWARD THE MAJOR REQUIREMENT.

MINORS: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: ANTHROPOLOGY, EDUCATION, FINANCE, GEOGRAPHY, GEOLOGY, HISTORY, LAW, MATHEMATICS, PHILOSOPHY, POLITICAL SCIENCE, PSYCHOLOGY, SOCIAL WORK, SOCIOLOGY. AN ECONOMICS MAJOR WHO CHOOSES FINANCE AS A MINOR MUST INCLUDE TWELVE HOURS IN A SECOND MINOR. THE CURRICULUM IN LATIN-AMERICAN, ASIAN, OR RUSSIAN AREA STUDIES IS ACCEPTED AS A MINOR.

NOTE: ECON. 102 AND 103 ARE REQUIRED FOR ALL COMMERCE STUDENTS, AND THESE OR 108 ARE REQUIRED FOR ALL LIBERAL ARTS MAJORS IN ECONOMICS. STUDENTS WHO EXPECT TO DO ADVANCED WORK IN ECONOMICS SHOULD TAKE THESE COURSES IN THEIR SOPHOMORE YEAR.

COURSES FOR UNDERGRADUATES

ECON 102 PRINCIPLES OF ECONOMICS, I.
PREREQUISITE: ONE SEMESTER OF COLLEGE WORK.
3 HOURS

04205	LECT-DISC	E	1	MTUWTHF	140	COM W	WELLS
		E	4	F	140	COM W	WELLS

ECON 103 PRINCIPLES OF ECONOMICS, II.
PREREQUISITE: ECON. 102.
3 HOURS

04213	LECT-DISC	D	11	MTUWTHF	40	COM W	WESTON
		D	9	TU	243	COM W	WESTON

ECON 108 ELEMENTS OF ECONOMICS.
NOT OPEN TO COMMERCE STUDENTS OR STUDENTS WHO HAVE HAD ECON. 102 AND 103.
PREREQUISITE: FIRST SEMESTER FRESHMAN IN ENGINEERING, SECOND SEMESTER FRESHMAN IN OTHER COLLEGES.
3 OR 4 HOURS

04221	LECT-DISC	A	8	MTUWTHF	111	G H	
		A	1	M	111	G H	
04230	LECT-DISC	B	9	MTUWTHF	238	ADMIN	
		B	2	TU	238	ADMIN	
04248	LECT-DISC	C	10	MTUWTHF	130	COM W	
		C	1	F	130	COM W	

ECON 172 ECONOMIC STATISTICS, I.
PREREQUISITE: MATH. 134 OR EQUIVALENT, AND CREDIT OR REGISTRATION IN ECON. 102 OR 108.
3 HOURS

04256	LECT-DISC	B	9	MTUWTHF	40	COM W	
		B	2	M	40	COM W	

ECON 173 ECONOMIC STATISTICS, II.
PREREQUISITE: ECON. 172 OR EQUIVALENT.
3 HOURS

04264	LECT-DISC	C	10	MTUWTHF	40	COM W	STEINKAMP
		C	3	M	243	COM W	STEINKAMP

ECON 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS

04272	CONF		ARR				STAFF

COURSES FOR ADVANCED UNDERGRADUATES

ECON 236 AMERICAN ECONOMIC HISTORY.
PREREQUISITE: JUNIOR STANDING, ECON. 103 OR 108.
3 HOURS

04281	LECT-DISC	A	8	MTUWTHF	140	COM W	WESTON
		A	2	W	140	COM W	WESTON

ECON 240 LABOR PROBLEMS.
PREREQUISITE: ECON. 102 AND 103, OR 108.
3 HOURS

04299	LECT-DISC	B	9	MTUWTHF	140	COM W	PARRISH
		B	2	TU	140	COM W	PARRISH

ECON 288 GOVERNMENT REGULATION OF ECONOMIC ACTIVITY.
PREREQUISITE: ECON. 102 AND 103, OR 108.
3 HOURS

04301	LECT-DISC	D	11	MTUWTHF	130	COM W	HARBESON
		D	2	M	130	COM W	HARBESON

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

ECON 300 INTERMEDIATE MICRO-ECONOMIC THEORY.
PREREQUISITE: ECON. 103, OR 108.
STUDENTS MAY NOT RECEIVE CREDIT FOR BOTH ECON. 200 AND 300.
3 HOURS OR 1/2 UNIT

04310	LECT-DISC	A	8	MTUWTHF	40	COM W	VANDENDRIES
		A	2	TU	40	COM W	VANDENDRIES

ECON 301 INTERMEDIATE MACRO-ECONOMIC THEORY.
PREREQUISITE: ECON. 103 OR 108.
3 HOURS OR 1/2 UNIT

04328	LECT-DISC	B	9	MTUWTHF	130	COM W	VANDENDRIES
		B	1	W	130	COM W	VANDENDRIES

COURSES FOR GRADUATES

ECON 400 GENERAL ECONOMIC THEORY.
PREREQUISITE--ECON. 103 OR 108.
1 UNIT
*ENROLLMENT RESTRICTED TO STUDENTS IN THE NATIONAL SCIENCE FOUNDATION SUMMER INSTITUTE IN ECONOMICS.

04336	LECT-DISC	C	10-12	M W	240	COM W	ARNOULD
04344	LECT-DISC	*&C	10-12	M W F	243	COM W	

ECON 406 HISTORY OF ECONOMIC THOUGHT.
PREREQUISITE: ECON. 300 AND 301 OR EQUIVALENT.
1 UNIT

04352	LECT-DISC	P	1-3	TU TH	130	COM W	BREMS

ECON 412 ADVANCED AGGREGATE INCOME THEORY.
PREREQUISITE: GRADUATE STANDING, ECON. 403, OR CONSENT OF INSTRUCTOR.
1 UNIT

04361	LECT-DISC	C	10-12	M W	140	COM W	WELLS

ECON 438 ECONOMIC HISTORY OF EUROPE.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

04379	LECT-DISC	L	8-10	M W	243	COM W	KEMMERER
		L	8-10	F	111	D K H	KEMMERER

ECON 441 LABOR ECONOMICS.
SAME AS L. I. R. 441.
PREREQUISITE: ECON. 300 AND 301.
1 UNIT

04387	LECT-DISC	N	10-12	TU TH	240	COM W	PARRISH

ECON 450 THE ECONOMICS OF DEVELOPMENT AND GROWTH.
PREREQUISITE: ECON. 300 AND 301 OR EQUIVALENT.
1 UNIT
*ENROLLMENT RESTRICTED TO STUDENTS IN THE NATIONAL SCIENCE FOUNDATION SUMMER INSTITUTE IN ECONOMICS.

04395	LECT-DISC	*&N	10-12	TU TH	243	COM W	
		*&N	8-10	F	125	D K H	

ECON 470 ECONOMIC STATISTICS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT
*ENROLLMENT RESTRICTED TO STUDENTS IN THE NATIONAL SCIENCE FOUNDATION SUMMER INSTITUTE IN ECONOMICS.

04408	LECT-DISC	A	8-10	MTUWTH	6	COM W	RESEK
04416	LECT-DISC	*&P1	1-3	MTUWTH	243	COM W	MOYER
04424	LECT-DISC	*&P2	1-3	MTUWTH	240	COM W	PADEN

ECON 490 INDIVIDUAL STUDY AND RESEARCH.
1/2 TO 1 UNIT

04432	CONF	ARR		STAFF

ECON 499 THESIS RESEARCH.
0 TO 2 UNITS

04441	CONF	ARR		STAFF

EDUCATION ADMINISTRATION

DEPARTMENT OFFICE EDUCATION BUILDING

COURSES FOR GRADUATES

ED AD 430 ELEMENTARY SCHOOL ORGANIZATION AND ADMINISTRATION.
INTENDED PRIMARILY FOR CANDIDATES FOR THE MASTERS DEGREE.
IN SUMMER SESSIONS THIS COURSE IS RESTRICTED TO THOSE WITHOUT
EXPERIENCE IN ADMINISTRATION AND MUST BE TAKEN WITH ED. AD. 464.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT
MEETS FIRST FOUR WEEKS ONLY.

04459	LECT-DISC		8-10	TUWTHF	385	EDUC	WESTON

ED AD 438 INSTRUCTIONAL SUPERVISION.
PREREQUISITE: EL. ED. OR SE. ED. 439 AND ED. AD. 460.
1 UNIT

04467	LECT-DISC	A	8	TUWTHF	433	ARMORY	CARVER
04475	LECT-DISC	B	9	TUWTHF	433	ARMORY	

ED AD 440 ADMINISTRATION AND SUPERVISION OF JUNIOR AND SENIOR HIGH SCHOOLS.
INTENDED PRIMARILY FOR CANDIDATES FOR THE MASTERS DEGREE.
IN SUMMER SESSIONS THIS COURSE IS RESTRICTED TO THOSE WITHOUT
EXPERIENCE IN ADMINISTRATION AND MUST BE TAKEN WITH ED. AD. 464.
PREREQUISITE: ED. AD. 460 OR CONSENT OF INSTRUCTOR.
1 UNIT
MEETS FIRST FOUR WEEKS ONLY.

04483	LECT-DISC		9-11	TUWTHF	236	COM W	RAUBINGER

ED AD 460 PUBLIC CONTROL AND ADMINISTRATION OF EDUCATION.
NOT OPEN TO EXPERIENCED ADMINISTRATORS OR TO ANY STUDENTS WHO HAVE
TAKEN ANY OF THE FOLLOWING COURSES (OR EQUIVALENT): ED. AD. 430,
440, 461, 462, 464, 465, 466.
1 UNIT

04491	LECT-DISC	A	8	TUWTHF	166	COM W	MILLER
04504	LECT-DISC	B	9	TUWTHF	166	COM W	MILLER

ED AD 461 ADMINISTRATION OF EDUCATIONAL PROGRAMS AND PERSONNEL.
PREREQUISITE: ED. AD. 460, AND 430 OR 440.
1 UNIT

04512	LECT-DISC		11-3	TU TH	8	COM W	SERGIOVANNI AND GREGORC

ED AD 462 ORGANIZATION AND BUSINESS ADMINISTRATION OF PUBLIC EDUCATION.
PREREQUISITE: ED. AD. 460, 430 OR 440, AND 461.
1 UNIT

04521	LECT-DISC		11-3	TU TH	96	COM W	BURNHAM AND RAUBINGER

ED AD 463 THE ROLE OF ADMINISTRATIVE LEADERSHIP.
PREREQUISITE: ED. AD. 461 AND EDPSY. 413.
1 UNIT

04539	LECT-DISC		11-3	W F	207	G H	CARVER AND MC GREAL

ED AD 464 FIELD PROBLEMS IN EDUCATIONAL ADMINISTRATION.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT
*SECTIONS A AND B MEET SECOND FOUR WEEKS ONLY.
*SECTION V MEETS 8 WEEKS; REQUIRES CONSENT OF INSTRUCTOR.

04555	LECT-DISC	*A	8-11	TUWTHF	385	EDUC	WESTON
04563	LECT-DISC	*B	8-11	TUWTHF	236	COM W	
04547	LECT-DISC	*V	ARR				HEMP AND TOMLINSON

ED AD 465 PERSONNEL ADMINISTRATION.
PREREQUISITE: ED. AD. 460, 430 OR 440, AND 461.
1 UNIT

04571	LECT-DISC		9	TUWTHF	205	G H	SERGIOVANNI

ED AD 466 PUBLIC SCHOOL FINANCE.
PREREQUISITE: EC. AD. 460 AND 430 OR 440 AND 462.
1 UNIT

04580	LECT-DISC	9	TUWTHF	96	COM W	MCLURE

ED AD 468 SCHOOL-COMMUNITY RELATIONS.
1 UNIT

04598	LECT-DISC	11	TUWTHF	236	COM W	SUMPTION

ED AD 469 LEGAL BASIS OF SCHOOL ADMINISTRATION.
1 UNIT

04601	LECT-DISC	10	TUWTHF	96	COM W	SUMPTION

ED AD 470 PRINCIPLES AND RESOURCES FOR SCHOOL PLANT PLANNING.
PREREQUISITE: EC. AD. 460.
1 UNIT

04619	LECT-DISC	8	TUWTHF	96	COM W	BURNHAM

ED AD 490 SEMINAR FOR ADVANCED STUDENTS OF EDUCATION.
OPEN ONLY TO PERSONS WHO HAVE COMPLETED THE PRELIMINARY EXAMINATION FOR THE DEGREES OF PH.D. OR ED. D.
1 TO 2 UNITS

04627	CONF	ARR				STAFF

ED AD 491 FIELD STUDY AND THESIS SEMINAR.
LIMITED TO STUDENTS WHO HAVE BEEN ADMITTED FOR DOCTORAL STUDY.
1 TO 2 UNITS

04635	CONF	ARR				STAFF

ED AD 499 THESIS RESEARCH.
0 TO 2 1/2 UNITS

04643	CONF	ARR				STAFF

EDUCATIONAL PRACTICE

DEPARTMENT OFFICE EDUCATION BUILDING

APPLICATION FOR ADMISSION TO EDUCATION PRACTICE (STUDENT TEACHING): ADMISSION TO STUDENT TEACHING IS LIMITED TO THOSE STUDENTS, UNDERGRADUATE OR GRADUATE, WHO HAVE BEEN ADMITTED TO ADVANCED STANDING IN A TEACHER EDUCATION CURRICULUM AND WHO ARE ENROLLED IN PROGRAMS APPROVED BY THE URBANA-CHAMPAIGN COUNCIL ON TEACHER EDUCATION. EDUCATIONAL PRACTICE DURING THE SUMMER SESSION IS DESIGNED FOR EXPERIENCED TEACHERS HOLDING SUB-STANDARD CERTIFICATES IN THE STATE OF ILLINOIS. STUDENTS SHOULD FILE FOR ADMISSION AND SECURE AN APPLICATION FOR STUDENT TEACHING ASSIGNMENT DURING THE MONTH OF APRIL PRIOR TO THE SUMMER SESSION IN WHICH THEY PLAN TO ENROLL FOR THE COURSE. APPLICATION FORMS MAY BE OBTAINED FROM THE APPROPRIATE OFFICE OF STUDENT TEACHING. EDUCATIONAL PRACTICE IS UNDER THE GENERAL SUPERVISION OF THE ILLINOIS TEACHING EXPERIENCES LABORATORY. HOWEVER, THE FOLLOWING SEPARATE OFFICES OF STUDENT TEACHING DEVELOP SPECIFIC REQUIREMENTS FOR THEIR STUDENTS: SECONDARY EDUCATION, ELEMENTARY EDUCATION, SPECIAL EDUCATION, AND VOCATIONAL AND TECHNICAL EDUCATION. CANDIDATES FOR UNIVERSITY OF ILLINOIS TEACHER-EDUCATION DEGREES MUST COMPLETE EDUCATIONAL PRACTICE (STUDENT TEACHING) AT THE UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN.

COURSES FOR ADVANCED UNDERGRADUATES

ED PR 232 EDUCATIONAL PRACTICE IN ELEMENTARY EDUCATION.
PREREQUISITE: EL. ED. 233, EL. ED. 237, AND SENIOR STANDING.
2 TO 5 HOURS
*SECTION A IS FOR STUDENTS IN GENERAL ELEMENTARY CURRICULUM.
5 HOURS

04651	PRACT	*A	ARR

DEPARTMENT OFFICE EDUCATION BUILDING

COURSES FOR ADVANCED UNDERGRADUATES

EDPSY 211 EDUCATIONAL PSYCHOLOGY.
PREREQUISITE: PSYCH. 100.
3 HOURS

04660	LECT-DISC	E	1	TUWTHF	162	EDUC	
	LAB	E	3-5	TU	162	EDUC	
04678	LECT-DISC	F	2	TUWTHF	1	EDUC	
	LAB	F	3-5	W	1	EDUC	

EDPSY 236 CHILD DEVELOPMENT FOR ELEMENTARY TEACHERS.
PREREQUISITE: PSYCH. 100.
3 HOURS

04686	LECT-DISC		10	TUWTHF	115	D K H
	LAB		8-10	TU	28	COM W

EDPSY 249 INDEPENDENT STUDY.
PREREQUISITE: UPPER CLASSMAN, UPPER 5 PER CENT OF CLASS IN GRADE POINT AVERAGE, CONSENT OF ADVISER AND STAFF MEMBER WHO SUPERVISES THE WORK.
2 HOURS

04694	CONF		ARR			

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

EDPSY 311 PSYCHOLOGY OF LEARNING FOR TEACHERS.
PREREQUISITE: PRACTICE TEACHING OR TEACHING EXPERIENCE, AND ED. PSY. 211.
2 HOURS OR 1/2 UNIT
*SECTION A1 MEETS FIRST FOUR WEEKS ONLY. SECTION E1 MEETS SECOND FOUR WEEKS ONLY.

04791	LECT-DISC	*A1	8-10	TUWTHF	2	EDUC	JONES
04707	LECT-DISC	A2	8	TUWTHF	29	PSYCH BLDG	G. WATTS
04715	LECT-DISC	B1	9	TUWTHF	29	PSYCH BLDG	MORGAN
04723	LECT-DISC	B2	9	TUWTHF	119	D K H	WEST
04731	LECT-DISC	C1	10	TUWTHF	29	PSYCH BLDG	MENGES
04740	LECT-DISC	C2	10	TUWTHF	91	COM W	G. WATTS
04758	LECT-DISC	D1	11	TUWTHF	29	PSYCH BLDG	MENGES
04766	LECT-DISC	D2	11	TUWTHF	119	D K H	MORGAN
04803	LECT-DISC	*E1	1-3	TUWTHF	2	EDUC	RUSHTON
04774	LECT-DISC	E2	1	TUWTHF	433	ARMORY	KNAPP
04782	LECT-DISC	F	2	TUWTHF	433	ARMORY	FILLION

EDPSY 312 MENTAL HYGIENE AND THE SCHOOL.
PREREQUISITE: PRACTICE TEACHING OR TEACHING EXPERIENCE, AND ED. PSY. 211.
2 HOURS OR 1/2 UNIT
*SECTION A1 MEETS SECOND FOUR WEEKS ONLY. SECTION E1 MEETS FIRST FOUR WEEKS ONLY.

04900	LECT-DISC	*A1	8-10	TUWTHF	2	EDUC	
04811	LECT-DISC	A2	8	TUWTHF	332	ARMORY	
04820	LECT-DISC	B1	9	TUWTHF	332	ARMORY	
04838	LECT-DISC	B2	9	TUWTHF	223	D K H	
04846	LECT-DISC	C1	10	TUWTHF	2	EDUC	
04854	LECT-DISC	C2	10	TUWTHF	223	D K H	
04862	LECT-DISC	D1	11	TUWTHF	134	ARMORY	
04871	LECT-DISC	D2	11	TUWTHF	223	D K H	
04918	LECT-DISC	*E1	1-3	TUWTHF	2	EDUC	
04889	LECT-DISC	E2	1	TUWTHF	332	ARMORY	WHEELER
04897	LECT-DISC	F	2	TUWTHF	162	EDUC	B. WATTS

EDPSY 326 INTRODUCTION TO VOCATIONAL REHABILITATION COUNSELING.
PREREQUISITE: CONSENT OF INSTRUCTOR.
2 HOURS OR 1/2 UNIT

04926	LECT-DISC		1-3	TU TH	166	COM W	MOSES

EDPSY 339 CORRECTIVE READING.
SAME AS EL. ED. 339.
PREREQUISITE: EL. ED. 336 OR 338.
3 HOURS OR 1 UNIT

04934	LECT-DISC	B	9	TUWTHF	10	EDUC	KOENKE
04942	LECT-DISC	C	10	TUWTHF	10	EDUC	POWELL

EDPSY 343 INDIVIDUAL INTELLIGENCE TESTING.
PREREQUISITE: CONSENT OF INSTRUCTOR AND SIX HOURS OF PSYCHOLOGY AND SP. ED. 324, OR EDPSY. 392 OR PSYCH. 390.
3 HOURS CR 1 UNIT

04951	LECT-DISC		8-10	TUWTHF	125	E P G B	NEWLAND

EDPSY 390 ELEMENTS OF EDUCATIONAL STATISTICS.
3 HOURS CR 1 UNIT

04969	LECT-DISC	A1	9-11	TUWTHF	9	G H	TRAVERS
04977	LECT-DISC	A2	8-10	TUWTHF	242	EDUC	
04985	LECT-DISC	B1	9-11	TUWTHF	325	O K H	HALLWORTH
04993	LECT-DISC	E1	1-3	TUWTHF	9	G H	AIKEN
05008	LECT-DISC	E2	1-3	TUWTHF	192	EDUC	STOGREN

EDPSY 391 CONSTRUCTION AND USE OF TESTS IN TEACHING.
PREREQUISITE: ED. PSY. 211 OR 236.
4 HOURS OR 1 UNIT

05016	LECT-DISC		8	TUWTHF	389	EDUC	GRONLUND

EDPSY 392 INTRODUCTION TO THE PRINCIPLES OF MEASUREMENT.
PREREQUISITE: ED. PSY. 211 OR 236.
4 HOURS OR 1 UNIT
*FOR STUDENTS IN COUNSELING.

05024	LECT-DISC	A	8	TUWTHF	9	G H	AIKEN
05032	LECT-DISC	B	11	TUWTHF	2	EDUC	GRONLUND
05041	LECT-DISC	*C	1-5	TU TH	431	ARMORY	KACZKOWSKI

COURSES FOR GRADUATES

EDPSY 411 PSYCHOLOGY OF ADOLESCENCE FOR TEACHERS.
PREREQUISITE: ED. PSY. 311 AND 312.
1 UNIT

05059	LECT-DISC	B	8	TUWTHF	305	G H	BLAIR
05067	LECT-DISC	C	10	TUWTHF	162	EDUC	WHEELER
05075	LECT-DISC	D	11	TUWTHF	137	ARMORY	B. WATTS

EDPSY 412 ADVANCED CHILD DEVELOPMENT FOR STUDENTS OF EDUCATION.
PREREQUISITE: ED. PSY. 311 AND 312.
1 UNIT

05083	LECT-DISC		1-3	W F	219	G H	

EDPSY 413 SOCIAL PSYCHOLOGY AND THE PROBLEMS OF EDUCATION.
PREREQUISITE: ED. PSY. 311, 312 AND 390.
1 UNIT
*PRIMARILY FOR STUDENTS IN SCHOOL ADMINISTRATION.

05104	LECT-DISC	*A	8	TUWTHF	1	EDUC	SIMPSON
05091	LECT-DISC	D	11	TUWTHF	1	EDUC	MAEHR

EDPSY 414 THE PSYCHOLOGY OF COLLEGE TEACHING.
PREREQUISITE: A COURSE IN PSYCHOLOGY, CONSENT OF INSTRUCTOR.
1 UNIT

05112	LECT-DISC		10	TUWTHF	1	EDUC	SIMPSON

EDPSY 415 PSYCHOLOGICAL THEORIES APPLIED TO EDUCATION.
PREREQUISITE: ED. PSY. 311 AND 312, 411 OR 412, CANDIDACY FOR ED. D. OR PH. D. IN EDUCATION.
1 UNIT

05121	LECT-DISC	E1	1-3	TU TH	219	G H	BLAIR
05139	LECT-DISC	E2	11	TUWTHF	43	G H	WEST

EDPSY 422 BASIC PRINCIPLES OF COUNSELING.
PREREQUISITE: ED. PSY. 311 AND 312.
1 UNIT

05147	LECT-DISC	A	8	TUWTHF	205	G H	BOYD
05155	LECT-DISC	D	11	TUWTHF	219	G H	DELANEY
05163	LECT-DISC	E	1	TUWTHF	205	G H	ZACCARIA

EDPSY 423 THE USE OF TESTS IN GUIDANCE.
PREREQUISITE: ED. PSY. 390, 392 AND 422 OR EQUIVALENTS.
1 UNIT

05171	LECT-DISC	D	11	TUWTHF	382	EDUC	BOYD
05180	LECT-DISC	E	1	TUWTHF	382	EDUC	PATTERSON

EDPSY 424 SUPERVISED PRACTICE IN COUNSELING.
PREREQUISITE: MASTERS DEGREE IN GUIDANCE AND CONSENT OF FACULTY COMMITTEE.
2 UNITS

05198	CONF	A	ARR					PANCRAZIO
05201	CONF	B	ARR					MASUCCI
05219	CONF	C	ARR					
05227	CONF	D	ARR					
05235	CONF	E	ARR					
05243	CONF	F	ARR					

EDPSY 425 PRINCIPLES OF GUIDANCE.
*CREDIT IS NOT GIVEN IN BOTH ED. PSY. 325 AND 425.
*1 UNIT

05251	LECT-DISC	C	10	TUWTHF	192	EDUC	
05260	LECT-DISC	D	11	TUWTHF	166	COM W	MOSES
05278	LECT-DISC	E	1	TUWTHF	24	COM W	

EDPSY 427 PRINCIPLES AND TECHNIQUES OF GROUP GUIDANCE.
PREREQUISITE: ED. PSY. 311, 312, 422, 423, AND EITHER 325 OR 425, OR CONSENT OF INSTRUCTOR.
1 UNIT

05286	LECT-DISC	A	8-10	TUWTHF	20	COM W	DAVIS
05294	LECT-DISC	B	9-11	TUWTHF	8	COM W	LONG

EDPSY 428 THE ANALYSIS AND USE OF OCCUPATIONAL INFORMATION IN GUIDANCE PROGRAMS.
PREREQUISITE: ED. PSY. 425 OR AN INTRODUCTORY COURSE IN COUNSELING.
1 UNIT

05307	LECT-DISC		2	TUWTHF	134	ARMORY	ZACCARIA

EDPSY 447 SEMINAR IN REHABILITATION COUNSELING.
PREREQUISITE: ED. PSY. 326 AND 422.
*MAY BE REPEATED FOR A MAXIMUM OF ONE UNIT.
*1/2 UNIT

05315	LECT-DISC		ARR				MOSES

EDPSY 449 INDEPENDENT STUDY.
PREREQUISITE: APPROVAL OF STUDY OUTLINE BY ADVISER AND THE DEPARTMENT CHAIRMAN PRIOR TO ENROLLMENT.
*MAY BE REPEATED FOR A MAXIMUM OF TWO UNITS.
*1/2 OR 1 UNIT

05323	CONF	A1	ARR				ALEAMONI
05331	CONF	A2	ARR				R ANDERSON
05340	CONF	B	ARR				BECKER
05358	CONF	B1	ARR				BLAIR
05366	CONF	C	ARR				CHADBOURN
05374	CONF	C1	ARR				COHEN
05382	CONF	D	ARR				J DANIELS
05391	CONF	D1	ARR				DELANEY
05403	CONF	D2	ARR				DENNY
05411	CONF	G	ARR				GOULET
05420	CONF	G1	ARR				GRONLUND
05438	CONF	H	ARR				HASTINGS
05446	CONF	I	ARR				ISAACS
05454	CONF	J	ARR				R JONES
05462	CONF	K	ARR				KACZKOWSKI
05471	CONF	L	ARR				LONG
05489	CONF	M	ARR				MAEHR
05497	CONF	M1	ARR				MASUCCI
05500	CONF	M2	ARR				D MCGUIRE
05518	CONF	M3	ARR				MOSES
05526	CONF	N	ARR				NEWLAND
05534	CONF	P	ARR				PATTERSON
05542	CONF	P1	ARR				D PHILLIPS
05551	CONF	P2	ARR				J PHILLIPS
05569	CONF	S	ARR				SHOEMAKER
05577	CONF	S1	ARR				R SIMPSON
05585	CONF	S2	ARR				SPENCER
05593	CONF	S3	ARR				STAKE
05606	CONF	S4	ARR				STALLINGS
05614	CONF	T	ARR				TATSUOKA
05622	CONF	W	ARR				WARDROP
05631	CONF	W1	ARR				WEST
05649	CONF	W2	ARR				ZACCARIA
05657	CONF	W3	ARR				STAFF
05665	CONF	X	ARR				MED STAFF

EDPSY 490 SEMINAR FOR ADVANCED STUDENTS OF EDUCATION.
OPEN ONLY TO PERSONS WHO HAVE COMPLETED THE PRELIMINARY EXAMINATION FOR THE DEGREES OF PH.D. OR ED.D.
0 TO 2 UNITS

05673	LECT-DISC	A	ARR					PATTERSON
05681	LECT-DISC	B	ARR					MCGUIRE
05690	LECT-DISC	C	ARR					MAEHR

EDPSY 496 STATISTICAL METHODS IN EDUCATION.
PREREQUISITE: ED. PSY. 390.
1 UNIT

05702	LECT-DISC	C	10-12	TUWTHF	322	D K H		CHADBOURN
05711	LECT-DISC	E	1-3	TUWTHF	29	PSYCH BLDG		

EDPSY 497 ADVANCED STATISTICAL METHODS IN EDUCATION.
PREREQUISITE: ED. PSY. 496.
1 UNIT

05729	LECT-DISC		10-12	TUWTHF	N107	T H		TATSUOKA

EDPSY 498 THEORY OF EDUCATIONAL EVALUATION.
PREREQUISITE: ED. PSY. 496.
1 UNIT

05737	LECT-DISC		2	TUWTHF	332	ARMORY		

EDPSY 499 THESIS RESEARCH.
0 TO 2 1/2 UNITS

05745	CONF	A	ARR					ALEAMONI
05753	CONF	A1	ARR					R ANDERSON
05761	CONF	B	ARR					BECKER
05770	CONF	B1	ARR					BLAIR
05788	CONF	C	ARR					CHADBOURN
05796	CONF	C1	ARR					COHEN
05809	CONF	D	ARR					J DANIELS
05817	CONF	D1	ARR					DELANEY
05825	CONF	D2	ARR					DENNY
05833	CONF	G	ARR					GOULET
05841	CONF	G1	ARR					GRONLUND
05850	CONF	H	ARR					HASTINGS
05868	CONF	I	ARR					ISAACS
05876	CONF	J	ARR					R JONES
05884	CONF	K	ARR					KACZKOWSKI
05892	CONF	L	ARR					LONG
05905	CONF	M	ARR					MAEHR
05913	CONF	M1	ARR					MASUCCI
05921	CONF	M2	ARR					D MCGUIRE
05930	CONF	M3	ARR					MOSES
05948	CONF	N	ARR					NEWLAND
05956	CONF	P	ARR					PATTERSON
05964	CONF	P1	ARR					D PHILLIPS
05972	CONF	P2	ARR					J PHILLIPS
05981	CONF	S	ARR					SHOEMAKER
05999	CONF	S1	ARR					R SIMPSON
06003	CONF	S2	ARR					SPENCER
06011	CONF	S3	ARR					STAKE
06020	CONF	S4	ARR					STALLINGS
06038	CONF	T	ARR					TATSUOKA
06046	CONF	W	ARR					WARDROP
06054	CONF	W1	ARR					WEST
06062	CONF	W2	ARR					ZACCARIA
06071	CONF	W3	ARR					STAFF
06089	CONF	X	ARR					MED STAFF

DEPARTMENT OFFICE 155 E E B

COURSES FOR UNDERGRADUATES

E E 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS

06097	CONF	K	ARR			

COURSES FOR ADVANCED UNDERGRADUATES

E E 220 BASIC ELECTRICAL ENGINEERING.
PREREQUISITE: PHYCS. 106 AND 107, AND MATH 143.
*CREDIT IS NOT GIVEN FOR BOTH E. E. 220 AND 260. ELECTRICAL ENGINEERING STUDENTS RECEIVE NO CREDIT.
*3 HOURS

06100	DISC	A	8	MTUWTHF	59	E E B
		A	1	M	59	E E B

E E 229 INTRODUCTION TO ELECTROMAGNETIC FIELDS.
PREREQUISITE: PHYCS. 107 AND MATH. 345.
3 HOURS

06118	DISC	C	10	MTUWTHF	59	E E B
		C	1	W	59	E E B

E E 230 APPLICATION AND CONTROL OF MOTORS AND EQUIPMENT.
PREREQUISITE: E. E. 220.
*ELECTRICAL ENGINEERING STUDENTS RECEIVE NO CREDIT.
*2 HOURS

06126	DISC	B	9	MTUWTH	59	E E B

E E 231 POWER EQUIPMENT LABORATORY.
PREREQUISITE: CREDIT OR REGISTRATION IN E. E. 230.
*ELECTRICAL ENGINEERING STUDENTS RECEIVE NO CREDIT.
*1 HOUR

06134	LAB	S	2-5	TU TH	50E	E E B

E E 234 ELECTRICAL INSTRUMENTS AND MEASUREMENTS.
PREREQUISITE: E. E. 220.
*ELECTRICAL ENGINEERING STUDENTS RECEIVE NO CREDIT.
*2 HOURS

06142	DISC	D	11	MTUWTH	57	E E B

E E 251 ELECTRICAL ENGINEERING LABORATORY, I.
PREREQUISITE: CREDIT OR REGISTRATION IN E. E. 220 OR 260.
1 HOUR

06151	LECT	F	2	M W	170	E E B
06169	LAB	M	3-5	M W	50H	E E B
06177	LAB	N	3-5	TU TH	50H	E E B

E E 260 NETWORKS, I.
PREREQUISITE: PHYCS. 107; CREDIT OR REGISTRATION IN C. S. 101, E. E. 251, AND MATH. 345.
*CREDIT IS NOT GIVEN FOR BOTH E. E. 220 AND 260.
*3 HOURS

06185	DISC	A1	8	MTUWTHF	170	E E B
		A1	1	M	170	E E B
06193	DISC	A2	8	MTUWTHF	57	E E B
		A2	1	M	57	E E B

E E 262 NETWORKS, II.
PREREQUISITE: E. E. 260, MATH. 345, AND C. S. 101.
3 HOURS

06206	DISC	B1	9	MTUWTHF	170	E E B
		B1	1	TU	170	E E B
06214	DISC	B2	9	MTUWTHF	57	E E B
		B2	1	TU	57	E E B

E E 271 ELECTRICAL ENGINEERING PROBLEMS.
PREREQUISITE: APPROVED WRITTEN APPLICATION TO DEPARTMENT.
1 TO 4 HOURS
*SECTION NSF FOR NATIONAL SCIENCE FOUNDATION STUDENTS ONLY.
*SECTION 310 TOPIC: SYSTEMS, I.

06222	DISC	*NSF	ARR			
06231	DISC	*310	10	MTUWTHF	269	E E B
		*310	1	W	269	E E B

E E 272 ELECTRICAL ENGINEERING PROBLEMS.
PREREQUISITE: APPROVED WRITTEN APPLICATION TO DEPARTMENT.
1 TO 4 HOURS

06249	CONF	K	ARR			

E E 288 ECONOMIC ASPECTS OF ENGINEERING.
PREREQUISITE: JUNIOR STANDING IN ENGINEERING
OR CONSENT OF INSTRUCTOR.
3 HOURS

06257	DISC	D	11	MTUWTHF	170	E E B
		D	1	TH	170	E E B

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

E E 323 CIRCUIT LABORATORY.
PREREQUISITE: E. E. 251 AND 262; CREDIT OR REGISTRATION IN
E. E. 350.
1 HOUR, OR 0 OR 1/4 UNIT

06265	LAB	F	2-5	M W	132	E E B
06273	LAB	S	2-5	TU TH	132	E E B

E E 330 MAGNETIC CIRCUITS AND TRANSFORMERS.
PREREQUISITE: E. E. 229 AND 262.
3 HOURS, OR 0 OR 3/4 UNIT

06281	DISC	A	B	MTUWTHF	269	E E B
		A	1	M	269	E E B

E E 331 MAGNETIC CIRCUITS AND TRANSFORMER LABORATORY.
PREREQUISITE: E. E. 251; CREDIT OR REGISTRATION IN E. E. 330.
1 HOUR, OR 0 OR 1/4 UNIT

06290	LAB	S	2-5	M W	50K	E E B

E E 340 ELECTRONICS, I.
PREREQUISITE: PHYCS. 108 AND E. E. 260.
3 HOURS, OR 0 OR 3/4 UNIT

06302	DISC	B	9	MTUWTHF	269	E E B
		B	1	TU	269	E E B

E E 341 ELECTRONICS EXPERIMENTATION.
PREREQUISITE: E. E. 251, CREDIT OR REGISTRATION IN E. E. 340.
1 HOUR, OR 0 OR 1/4 UNIT

06311	LAB	F	2-5	M W	235	E E B
06329	LAB	S	2-5	TU TH	235	E E B

E E 342 ADVANCED ELECTRONICS.
PREREQUISITE: E. E. 262, 340, AND 341.
3 HOURS, OR 0 OR 3/4 UNIT

06337	DISC	O	11	MTUWTHF	269	E E B
		O	1	TH	269	E E B

E E 343 ELECTRONICS LABORATORY
PREREQUISITE: CREDIT OR REGISTRATION IN E. E. 342.
1 HOUR, OR 0 OR 1/4 UNIT

06345	LAB	F	2-5	M W	238	E E B
06353	LAB	S	2-5	TU TH	238	E E B

E E 347 INDUSTRIAL ELECTRONICS.
PREREQUISITE: E. E. 330 AND 342.
*CREDIT IS NOT GIVEN FOR BOTH E. E. 347 AND E. E. 381.
*4 HOURS, OR 0 OR 1 UNIT
SECTION NSF RESTRICTED TO STUDENTS ENROLLED IN U OF I NSF INSTITUTE
IN ENGINEERING TECHNOLOGY.

06361	DISC	NSF	8-10	MTUWTHF	234	E E B	CROTHERS

E E 350 LINES, FIELDS, AND WAVES.
PREREQUISITE: E. E. 229 AND 262.
3 HOURS OR 3/4 UNIT

06370	DISC	C	10	MTUWTHF	141	E E B	
		C	1	W	141	E E B	

E E 352 ELECTROMAGNETIC FIELDS.
PREREQUISITE: E. E. 350.
3 HOURS OR 3/4 UNIT

06388	DISC	D1	11	MTUWTHF	141	E E B	
		D1	1	TH	141	E E B	
06396	DISC	D2	11	MTUWTHF	59	E E B	
		D2	1	TH	59	E E B	

E E 381 PULSE TECHNIQUES.
PREREQUISITE: E. E. 342.
*CREDIT IS NOT GIVEN FOR BOTH E. E. 347 AND E. E. 381.
*4 HOURS, OR 0 OR 1 UNIT

06409	DISC	C	10	MTUWTHF	170	E E B	
		C	1	W	170	E E B	
	LAB	C	2-5	TU TH	234	E E B	

E E 382 TRANSISTOR CIRCUITS.
PREREQUISITE: E. E. 340, 342 AND 343, CREDIT OR REGISTRATION IN
E. E./MET. E. 384, OR CONSENT OF INSTRUCTOR.
4 HOURS OR 1 UNIT

06417	DISC	A	8	MTUWTHF	141	E E B	
		A	1	M	141	E E B	
	LAB	A	2-5	TU TH	241	E E B	

E E 383 TRANSISTOR CIRCUITS.
PREREQUISITE: E. E. 342 AND 343, CREDIT OR REGISTRATION IN
E. E./MET. E. 384, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 3/4 UNIT

06425	DISC	A	8	MTUWTHF	141	E E B	
		A	1	M	141	E E B	

E E 388 ELECTRONIC ANALOG COMPUTERS.
PREREQUISITE: E. E. 340, 341, MATH. 345 OR CONSENT OF INSTRUCTOR.
3 HOURS, OR 0 OR 1 UNIT

06433	DISC	B	9	MTUWTHF	141	E E B	MCVAY
		B	1	TU	141	E E B	MCVAY
06441	LAB	M	2-4	TU TH	262	E E B	

E E 389 COMMUNICATION DESIGN.
PREREQUISITE: E. E. 342 AND E. E. 350.
3 HOURS, OR 0 OR 3/4 UNIT

06450	DISC	D	11	MTUWTHF	335	E E B	SCHWARZLOSE
		D	1	TH	335	E E B	SCHWARZLOSE

COURSES FOR GRADUATES

E E 416 ANALYSIS OF NETWORKS AND SYSTEMS.
PREREQUISITE: E. E. 322, CREDIT OR REGISTRATION IN MATH. 346
OR 348.
1 UNIT

06468	DISC	A	8	MTUWTHF	335	E E B	FETT
		A	1	M	335	E E B	FETT

E E 420 ELECTROMAGNETIC WAVES AND RADIATING SYSTEMS.
PREREQUISITE: E. E. 352.
1 UNIT

06476	DISC	C1	10	MTUWTHF	335	E E B	
		C1	1	W	335	E E B	
06484	DISC	C2	10	MTUWTHF	57	E E B	
		C2	1	W	57	E E B	

E E 497 ELECTRICAL ENGINEERING PROBLEMS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
0 TO 1 UNIT
*NSF SECTION FOR NSF STUDENTS ONLY.

06492	DISC	B	9	MTUWTHF	335	E E B	
		B	1	TU	335	E E B	
06505	DISC	*NSF	ARR				

E E 498 INDIVIDUAL STUDY.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/2 TO 2 UNITS

06513	CONF	HWA	ARR	ADES
06521	CONF	FTA	ARR	ADLER
06530	CONF	DPA	ARR	AKITT
06548	CONF	WGA	ARR	ALBRIGHT
06556	CONF	GEA	ARR	ANNER
06564	CONF	RBA	ARR	ASH
06572	CONF	WRA	ARR	ASHBY
06581	CONF	DSB	ARR	BABB
06599	CONF	MLB	ARR	BABCOCK
06601	CONF	ADB	ARR	BAILEY
06610	CONF	JB	ARR	BARDEEN
06628	CONF	JWB	ARR	BEAUCHAMP
06636	CONF	DLB	ARR	BITZER
06644	CONF	SAB	ARR	BOWHILL
06652	CONF	RMB	ARR	BROWN
06661	CONF	RWB	ARR	BURTNESS
06679	CONF	JHC	ARR	CAHN
06687	CONF	BEC	ARR	CHERRINGTON
06695	CONF	RTC	ARR	CHIEN
06708	CONF	PDC	ARR	COLEMAN
06716	CONF	DHC	ARR	COOPER
06724	CONF	MHC	ARR	CROTHERS
06732	CONF	JMC	ARR	CROWLEY
06741	CONF	JBC	ARR	CRUZ
06759	CONF	GAD	ARR	DESCHAMPS
06767	CONF	AWD	ARR	DIPERT
06775	CONF	FD	ARR	DUNN
06783	CONF	JDD	ARR	DYSON
06791	CONF	PRE	ARR	EGBERT
06804	CONF	WLE	ARR	EMERY
06812	CONF	EWE	ARR	ERNST
06821	CONF	GHF	ARR	FETT
06839	CONF	FJF	ARR	FRY
06847	CONF	OLG	ARR	GADDY
06855	CONF	LG	ARR	GOLDSTEIN
06863	CONF	AHH	ARR	HADDAD
06871	CONF	PH	ARR	HANDLER
06880	CONF	DH	ARR	HANG
06898	CONF	MSH	ARR	HELM
06901	CONF	CDH	ARR	HENDRICKS
06919	CONF	FEH	ARR	HOHN
06927	CONF	NH	ARR	HOLONYAK
06935	CONF	DFH	ARR	HOLSHOUSER
06943	CONF	ECJ	ARR	JORDAN
06951	CONF	PWK	ARR	KLOCK
06960	CONF	PK	ARR	KOKOTOVIC
06978	CONF	BCK	ARR	KUO
06986	CONF	SWL	ARR	LEE
06994	CONF	CHL	ARR	LIU
07009	CONF	YTL	ARR	LO
07017	CONF	PM	ARR	MAST
07025	CONF	WM	ARR	MAYEDA
07033	CONF	PEM	ARR	MAYES
07041	CONF	MSM	ARR	MCVAY
07050	CONF	EAM	ARR	MECHILY
07068	CONF	HM	ARR	MERKELO
07076	CONF	GAM	ARR	METZE
07084	CONF	WEM	ARR	MILLER
07092	CONF	RM	ARR	MITTRA
07105	CONF	DEM	ARR	MULLER
07113	CONF	SM	ARR	MUROGA
07121	CONF	TAM	ARR	MURRELL
07130	CONF	NNR	ARR	NARAYANARAO
07148	CONF	JPN	ARR	NEAL
07156	CONF	GRP	ARR	PEIRCE
07164	CONF	WRP	ARR	PERKINS
07172	CONF	RFP	ARR	PIERRET
07181	CONF	DP	ARR	PINES
07199	CONF	WJP	ARR	POPPELBAUM
07201	CONF	FPP	ARR	PREPARATA
07210	CONF	SRR	ARR	RAY
07228	CONF	JER	ARR	ROBERTSON
07236	CONF	CTS	ARR	SAH
07244	CONF	PFS	ARR	SCHWARZLOSE
07252	CONF	CFS	ARR	SECHRIST
07261	CONF	BGS	ARR	STREETMAN
07279	CONF	GWS	ARR	SWENSON

E E 498 CONTINUED

07287	CONF	TNT	ARR	TRICK
07295	CONF	RJT	ARR	TURNBULL
07308	CONF	JTV	ARR	VERDEYEN
07316	CONF	HMW	ARR	VONFOERSTER
07324	CONF	NW	ARR	WAX
07332	CONF	HDW	ARR	WEBB
07341	CONF	KCY	ARR	YEH
07359	CONF	X	ARR	OTHERS

E E 499 THESIS RESEARCH.
0 TO 2 UNITS

07367	CONF	HWA	ARR	ADES
07375	CONF	FTA	ARR	ADLER
07383	CONF	DPA	ARR	AKITT
07391	CONF	WGA	ARR	ALBRIGHT
07404	CONF	GEA	ARR	ANNER
07412	CONF	RBA	ARR	ASH
07421	CONF	WRA	ARR	ASHBY
07439	CONF	MLB	ARR	BABCOCK
07447	CONF	ADB	ARR	BAILEY
07455	CONF	JB	ARR	BARDEEN
07463	CONF	DLB	ARR	BITZER
07471	CONF	SAB	ARR	BOWHILL
07480	CONF	RMB	ARR	BROWN
07498	CONF	RWB	ARR	BURTNESS
07501	CONF	RHC	ARR	CAHN
07519	CONF	BEC	ARR	CHERRINGTON
07527	CONF	RTC	ARR	CHIEN
07535	CONF	PDC	ARR	COLEMAN
07543	CONF	JMC	ARR	CROWLEY
07551	CONF	JBC	ARR	CRUZ
07560	CONF	GAD	ARR	DESCHAMPS
07578	CONF	FD	ARR	DUNN
07586	CONF	JDD	ARR	DYSON
07594	CONF	WLE	ARR	EMERY
07607	CONF	EWE	ARR	ERNST
07615	CONF	GHF	ARR	FETT
07623	CONF	FJF	ARR	FRY
07631	CONF	OLG	ARR	GADDY
07640	CONF	LG	ARR	GOLDSTEIN
07658	CONF	AHH	ARR	HADDAD
07666	CONF	PH	ARR	HANDLER
07674	CONF	DH	ARR	HANG
07682	CONF	MSH	ARR	HELM
07691	CONF	CDH	ARR	HENDRICKS
07703	CONF	FEH	ARR	HOHN
07711	CONF	NH	ARR	HOLONYAK
07720	CONF	DFH	ARR	HOLSHOUSER
07738	CONF	ECJ	ARR	JORDAN
07746	CONF	PWK	ARR	KLOCK
07754	CONF	PK	ARR	KOKOTOVIC
07762	CONF	BCK	ARR	KUO
07771	CONF	SWL	ARR	LEE
07789	CONF	CHL	ARR	LIU
07797	CONF	YTL	ARR	LO
07800	CONF	WM	ARR	MAYEDA
07818	CONF	PEM	ARR	MAYES
07826	CONF	EAM	ARR	MECHTLY
07834	CONF	HM	ARR	MERKELO
07842	CONF	GAM	ARR	METZE
07851	CONF	WEM	ARR	MILLER
07869	CONF	RM	ARR	MITTRA
07877	CONF	DEM	ARR	MULLER
07885	CONF	SM	ARR	MUROGA
07893	CONF	TAM	ARR	MURRELL
07906	CONF	NNR	ARR	NARAYANA RAO
07914	CONF	JPN	ARR	NEAL
07922	CONF	WRP	ARR	PERKINS
07931	CONF	DP	ARR	PINES
07949	CONF	WJP	ARR	POPPELBAUM
07957	CONF	FPP	ARR	PREPARATA
07965	CONF	SRR	ARR	RAY
07973	CONF	JER	ARR	ROBERTSON
07981	CONF	CTS	ARR	SAH
07990	CONF	PFS	ARR	SCHWARZLOSE
08004	CONF	CFS	ARR	SECHRIST
08012	CONF	BGS	ARR	STREETMAN
08021	CONF	GWS	ARR	SWENSON

08039	CONF	TNT	ARR	TRICK
08047	CONF	JTV	ARR	VERDEYEN
08055	CONF	HMV	ARR	VONFOERSTER
08063	CONF	NW	ARR	WAX
08071	CONF	HDW	ARR	WEBB
08080	CONF	KCY	ARR	YEH
08098	CONF	X	ARR	OTHERS

ELEMENTARY EDUCATION

DEPARTMENT OFFICE 306 EDUC

COURSES FOR ADVANCED UNDERGRADUATES

EL ED 230 PRINCIPLES, PROBLEMS AND ISSUES IN ELEMENTARY EDUCATION.
PREREQUISITE: MUST BE TAKEN CONCURRENTLY WITH ED. PR. 232.
3 HOURS

08101	LECT-DISC	1-230	TUWTHF	385	EDUC

EL ED 233 CLASSROOM PROGRAMS IN CHILDHOOD EDUCATION.
PREREQUISITE: JUNIOR STANDING, ED. PSY. 236.
2 HOURS

08119	LECT-DISC	10	TUWTHF	119	D K H

EL ED 249 INDEPENDENT STUDY.
PREREQUISITE: UPPER CLASSMAN, UPPER 5 PER CENT OF CLASS IN GRADE POINT AVERAGE, CONSENT OF ADVISER AND STAFF MEMBER WHO SUPERVISES THE WORK.
2 HOURS

08127	CONF	ARR	STAFF

EL ED 291 THESIS.
PREREQUISITE: SENIOR STANDING.
2 HOURS

08135	CONF	ARR	STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

EL ED 333 THE TEACHING OF LANGUAGE ARTS IN THE ELEMENTARY SCHOOL.
PREREQUISITE: EL. ED. 237 AND ED. PSY. 236.
3 HOURS, OR 1/2 TO 1 UNIT

08143	LECT-DISC A	8	TUWTHF	192	EDUC
08151	LECT-DISC B	9	TUWTHF	192	EDUC

EL ED 334 PRINCIPLES AND PRACTICES IN EARLY CHILDHOOD EDUCATION.
PREREQUISITE: EL. ED. 237.
3 HOURS, OR 1/2 OR 1 UNIT

08160	LECT-DISC	8	TUWTHF	24	COM W

EL ED 335 SCIENCE IN THE ELEMENTARY SCHOOL.
PREREQUISITE: EL. ED. 237, OR EQUIVALENT; TWO YEARS OF COLLEGE SCIENCE.
3 HOURS OR 1/2 UNIT

08178	LECT	11	TUWTHF	4G	EDUC	SHORESMAN
	LAB	ARR				

EL ED 336 PRIMARY READING.
PREREQUISITE: JUNIOR STANDING AND REGISTRATION IN A TEACHER EDUCATION CURRICULUM.
3 HOURS, OR 1/2 OR 1 UNIT

08186	LECT-DISC A	8	TUWTHF	162	EDUC
08194	LECT-DISC B	9	TUWTHF	1	EDUC
08207	LECT-DISC C	10	TUWTHF	382	EDUC

EL ED 337 ART EDUCATION IN THE ELEMENTARY SCHOOL.
PREREQUISITE: JUNIOR STANDING.
3 HOURS OR 1/2 UNIT

08215	LECT-DISC	A	8	TUWTHF	106	F A B	MARSHALL
08223	LECT-DISC	D	11	TUWTHF	106	F A B	HARDIMAN

EL ED 339 CORRECTIVE READING.
SAME AS EDPSY. 339.
PREREQUISITE: EL. ED. 336 OR 338.
3 HOURS OR 1 UNIT

08231	LECT-DISC	B	9	TUWTHF	10	EDUC	
08240	LECT-DISC	C	10	TUWTHF	10	EDUC	

EL ED 354 AUDIO-VISUAL COMMUNICATION.
SAME AS LIB. S. AND SE. ED. 354
PREREQUISITE: SENIOR OR GRADUATE STANDING.
3 HOURS, OR 1/2 OR 1 UNIT

08258	LECT-DISC		8-10	TU TH	405	E H	ISAACS
	LAB		8-10	W F	405	E H	ISAACS

COURSES FOR GRADUATES

EL ED 431 ELEMENTARY SCHOOL CLASSROOM PROGRAMS.
1 UNIT

08266	LECT-DISC	B	9	TUWTHF	219	D K H	RODGERS
08274	LECT-DISC	C	10	TUWTHF	123	D K H	MANOLAKES
08282	LECT-DISC	D	11	TUWTHF	162	EDUC	BARNES

EL ED 432 CLINICAL DIAGNOSIS AND REMEDIATION IN READING.
PREREQUISITE: EL. ED. 339 AND A COURSE IN INDIVIDUAL MENTAL TESTING.
*MAY BE REPEATED FOR A MAXIMUM OF 2 UNITS.
*1 UNIT

08291	LECT-DISC	A	8	TUWTHF	10	EDUC	
08303	LECT-DISC	B	11	TUWTHF	10	EDUC	

EL ED 433 CURRICULUM PROBLEMS AND TRENDS IN SPECIAL FIELDS OF ELEMENTARY EDUCATION.
PREREQUISITE: FOR ALL SECTIONS, EL. ED. 431 OR 434 OR CONSENT OF INSTRUCTOR; LANGUAGE ARTS SECTIONS, EL. ED. 333 AND 336 OR A COURSE IN THE TEACHING OF READING OR LANGUAGE ARTS, OR CONSENT OF INSTRUCTOR; CREATIVE ARTS SECTION, EL. ED. 337 OR CONSENT OF INSTRUCTOR; SCIENCE SECTION, EL. ED. 335 OR A METHODS COURSE IN TEACHING SCIENCE IN THE ELEMENTARY SCHOOL AND TWO YEARS OF COLLEGE SCIENCE, OR CONSENT OF INSTRUCTOR; READING SECTION, EL. ED. 336 OR COURSE IN TEACHING OF READING, OR CONSENT OF INSTRUCTOR; EARLY CHILDHOOD SECTION, EL. ED. 434, OR CONSENT OF INSTRUCTOR.
1 UNIT
*SECTIONS A1 AND A2 ARE FOR LANGUAGE ARTS. SECTION B IS FOR SOCIAL STUDIES. SECTION C IS FOR ARITHMETIC. SECTION D IS FOR SCIENCE. SECTION E IS FOR CREATIVE ARTS. SECTION F IS FOR READING. SECTION B WILL MEET THE FIRST FOUR WEEKS.

08311	LECT-DISC	*A1	9	TUWTHF	19	D K H	MOORE
08320	LECT-DISC	*A2	10	TUWTHF	21	D K H	MOORE
08338	LECT-DISC	*B	8-10	TUWTHF	28	EDUC	MCGILL
08346	LECT-DISC	*C	11	TUWTHF	9	G H	LERCH
08354	LECT-DISC	*D	8-10	TU TH	4G	EDUC	SHORESMAN
08362	LECT-DISC	*E	9	TUWTHF	21	D K H	HARDIMAN
08371	LECT-DISC	F	11	TUWTHF	385	EDUC	

EL ED 434 PROGRAMS IN EARLY CHILDHOOD EDUCATION.
1 UNIT

08389	LECT-DISC	B	9	TUWTHF	222	D K H	SPODEK
08397	LECT-DISC	C	10	TUWTHF	219	D K H	

EL ED 437 METHODS OF CHILD STUDY.
PREREQUISITE: ED. PSY. 312 OR CONSENT OF INSTRUCTOR.
1 UNIT

08400	LECT-DISC		11	TUWTHF	219	D K H	

EL ED 438 THE ORGANIZATION AND SUPERVISION OF SCHOOL READING PROGRAMS.
PREREQUISITE: EL. ED. OR EDPSY. 339; THE READING SECTION OF EL. ED. 433.
1 UNIT

08418	LECT-DISC		10	TUWTHF	15	D K H	

EL ED 439 FUNDAMENTALS OF CURRICULUM DEVELOPMENT.
1 UNIT

08426	LECT-DISC	B	9	TUWTHF	15	D K H	SHORES
08434	LECT-DISC	D	11	TUWTHF	24	COM W	SHORES

EL ED 449 INDEPENDENT STUDY.
PREREQUISITE: APPROVAL OF STUDY OUTLINE BY ADVISER AND THE DEPARTMENT CHAIRMAN PRIOR TO ENROLLMENT.
*MAY BE REPEATED FOR A MAXIMUM OF TWO UNITS.
*1/2 OR 1 UNIT

08442	CONF	ARR		GRAD STAFF

EL ED 455 THEORIES OF ART EDUCATION.
PREREQUISITE: EL. ED. 337 OR SE. ED. 456, OR CONSENT OF INSTRUCTOR.
1 UNIT

08451	LECT-DISC		11	TUWTHF	133	F A B	MARSHALL

EL ED 459 WORKSHOP IN CURRICULUM DEVELOPMENT.
1 TO 2 UNITS
*SECTION D IS FOR MATHEMATICS AND MEETS FIRST FOUR WEEKS. THIS WORKSHOP FOCUSES ON MODERN DEVELOPMENTS IN THE ELEMENTARY SCHOOL MATHEMATICS PROGRAM AND THE IMPROVEMENT OF TEACHING OF MATHEMATICS. BASIC MATHEMATICAL UNDERSTANDINGS AND CONCEPT FOR IMPROVED TEACHING METHODS AND MATERIALS WILL BE STRESSED.
*SECTION F IS FOR CURRICULUM DEVELOPMENT IN EARLY CHILDHOOD EDUCATION. THIS WORKSHOP IS DESIGNED ESPECIALLY FOR THOSE CONCERNED WITH THE EDUCATION OF THE YOUNG--THE CULTURALLY DEPRIVED CHILD.
*SECTION R IS FOR RESEARCH AND DESIGN IN CURRICULUM DEVELOPMENT. THIS WORKSHOP IS DESIGNED ESPECIALLY FOR ADVANCED GRADUATE STUDENTS IN EDUCATION INCLUDING CURRICULUM SPECIALISTS, SUPERVISORS, AND PRINCIPALS.
*SECTION S IS FOR SOCIAL STUDIES. MEETS SECOND FOUR WEEKS ONLY.
*SECTION U IS FOR URBAN EDUCATION. THIS WORKSHOP IS DESIGNED ESPECIALLY FOR TEACHERS, CONSULTANTS, AND ADMINISTRATORS INTERESTED IN PROBLEMS INVOLVED IN URBAN EDUCATION.

08469	LECT-DISC	*D	9-1130	TUWTHF	305	G H	PHILLIPS
		*D	130-3	TUWTHF	305	G H	
08477	LECT-DISC	*F	11	TUWTHF	192	EDUC	SPODEK
08485	LECT-DISC	*R	9	TUWTHF	389	EDUC	BARNES-LERCH
08493	LECT-DISC	*S	9-11	TUWTHF	28	EDUC	MCGILL
08506	LECT-DISC	*U	11	TUWTHF	19	D K H	RODGERS

EL ED 491 FIELD STUDY AND THESIS SEMINAR.
LIMITED TO STUDENTS WHO HAVE BEEN ADMITTED FOR DOCTORAL STUDY.
1 TO 2 UNITS

08514	CONF	ARR	GRAD STAFF

EL ED 499 THESIS RESEARCH.
0 TO 2 1/2 UNITS

08522	CONF	ARR	GRAD STAFF

ENGINEERING

DEPARTMENT OFFICE 101 E H

COURSES FOR UNDERGRADUATES

ENG 101 COOPERATIVE ENGINEERING EDUCATION SEMINAR.
PREREQUISITE: COOPERATIVE STUDENT IN ANY ENGINEERING CURRICULUM.
0 CREDIT
08531 LECT-DISC ARR OPPERMAN

ENG 102 COOPERATIVE ENGINEERING EDUCATION PRACTICE.
PREREQUISITE: COOPERATIVE STUDENT IN ANY ENGINEERING CURRICULUM.
0 CREDIT
08549 PRACT ARR OPPERMAN

ENGINEERING HONORS

DEPARTMENT OFFICE 101 E H

COURSES FOR UNDERGRADUATES

ENG H 198 HONORS SEMINAR.
PREREQUISITE: HONORS STUDENT IN THE UNIVERSITY.
1 TO 4 HOURS
19306 CONF & ARR

ENGLISH LITERATURE AND AMERICAN LITERATURE

DEPARTMENT OFFICE 100 E B

MAJOR: A COURSE IN SHAKESPEARE AND TWENTY ADDITIONAL HOURS IN ENGLISH. EXCLUDING 101, 102, 103, 115, 116, 195, 196, AND RHETORIC 101, 102, 107, 108, 202, 251, 271, 272. OF THESE TWENTY ADDITIONAL HOURS, SEVENTEEN MUST BE TAKEN IN ENGLISH OR AMERICAN LITERATURE, INCLUDING THREE HOURS FROM EACH OF THE FOLLOWING GROUPS: (1) AMERICAN LITERATURE: ENGLISH 255, 256; A STUDENT WHO HAS CREDIT FOR BOTH ENGLISH 113 AND 114 MAY OFFER ENGLISH 272, 273, 287, 288, 316, 352, 353, 354, 359, 375, 376, 377, OR 380; (2) ENGLISH LITERATURE PRIOR TO 1616: ENGLISH 221, 235, 311, 325, 326, OR 336; (3) ENGLISH LITERATURE FROM 1616 TO 1800: ENGLISH 245, 342, 345, 346, 348, OR 349; (4) ENGLISH LITERATURE FROM 1800 TO THE PRESENT: ENGLISH 246, 263, 264, 281, 282, 283, OR 284.

PREREQUISITE TO THE ENGLISH MAJOR IS SIX SEMESTER HOURS OF INTRODUCTORY LITERATURE: ENGLISH 101 AND EITHER 102 OR 103, OR ENGLISH 195 AND 196. IF NECESSARY THESE COURSES MAY BE TAKEN CONCURRENTLY WITH ADVANCED COURSES.

MINORS: AN APPROVED SEQUENCE OF TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS WITH AT LEAST EIGHT HOURS IN THE LESSER IF TWO ARE CHOSEN: ANTHROPOLOGY, ECONOMICS, ANY FOREIGN LANGUAGE, HISTORY, HUMANITIES, LIBRARY SCIENCE, MATHEMATICS, PHILOSOPHY, POL. SCIENCE, PSYCHOLOGY, SOCIOLOGY, AND SPEECH; OR AN APPROVED SEQUENCE IN HISTORY OF ARCHITECTURE, HISTORY OF ART, OR MUSIC (NOT INCLUDING APPLIED MUSIC) COMBINED WITH ANY ONE OF THE ABOVE SUBJECTS. THE PROGRAM IN ASIAN STUDIES IS ACCEPTED AS A SOLE MINOR. WITH THE WRITTEN APPROVAL OF THE DEPARTMENT ADVISER, OTHER SUBJECTS MAY BE SUBSTITUTED. NO COURSES UNLESS APPROVED BY THE ADVISOR WILL SATISFY MINOR REQUIREMENTS IF THEY ARE EXCLUDED FROM THE MAJORS OF THEIR DEPARTMENTS EXCEPT FRENCH 103, 104, GERMAN 103, 104, LATIN 101, 102, 103, PORTUGUESE 103, 104, RUSSIAN 103, 104, AND SPANISH 103, 104. FOREIGN LANGUAGE DEPARTMENT COURSES PRESENTING FOREIGN LITERATURE IN TRANSLATION ARE ALSO EXCLUDED.

ENGLISH MAJORS WHO INTEND TO TEACH IN SECONDARY SCHOOLS MUST SEE THE ADVISER ON SPECIAL CURRICULA. A STUDENT WHO PLANS TO ATTEND GRADUATE SCHOOL SHOULD TAKE INTO ACCOUNT THE ENTRANCE REQUIREMENTS OF THE GRADUATE DEPARTMENT HE WISHES TO ENTER.

DEPARTMENTAL HONORS PROGRAM AND DISTINCTION: THE ENGLISH DEPARTMENT OFFERS FIVE SPECIAL COURSES (197, 295, 296, 297, 298) WHICH CONSTITUTE THE HONORS PROGRAM. A FULL DESCRIPTION OF THIS PROGRAM MAY BE OBTAINED FROM THE DEPARTMENTAL OFFICES, THE DEPARTMENTAL DIRECTOR OF HONORS, OR FROM ANY MAJOR ADVISOR. A STUDENT MAJORING IN ENGLISH WHO MEETS THE UNIVERSITY GRADE-POINT REQUIREMENT (4.0 OR BETTER) MAY EARN DISTINCTION ONLY BY SUCCESSFULLY COMPLETING ENGLISH 297, 298, AND ANY TWO OF THE OTHER THREE (197, 295, 296) HONORS SEMINARS IN ADDITION TO THE OTHER REMAINING REGULAR REQUIREMENTS FOR HIS MAJOR. A STUDENT ENROLLED IN THE TEACHER EDUCATION CURRICULUM MAY EARN DISTINCTION BY SUBSTITUTING ENGLISH 197 FOR ENGLISH 297 AND BY TAKING ENGLISH 298 DURING WHICHEVER SEMESTER OF HIS SENIOR YEAR HE IS ON CAMPUS THE FULL TIME.

THE LEVEL OF DISTINCTION (DISTINCTION, HIGH DISTINCTION, HIGHEST DISTINCTION) IS DETERMINED BY THE HONORS COMMITTEE, THE INSTRUCTORS IN THE HONORS SEMINARS, THE ENGLISH 298 TUTOR, AND SUCH OTHER FACULTY MEMBERS AS MAY BE ASKED TO READ THE HONORS ESSAY. TO RECEIVE HIGHEST DISTINCTION, HOWEVER, A STUDENT MUST HAVE A MINIMUM GRADE POINT AVERAGE OF 4.75 IN ALL COURSES THAT COUNT TOWARD HIS MAJOR; TO RECEIVE HIGH DISTINCTION, HIS AVERAGE IN THESE COURSES MUST BE AT LEAST 4.5. IF, IN THE OPINION OF THOSE DESIGNATED TO DETERMINE THESE MATTERS, A CANDIDATE FAILS TO EARN ANY KIND OF DISTINCTION, HE WILL STILL RECEIVE CREDIT FOR THE HONORS COURSES HE HAS TAKEN.

COURSES FOR UNDERGRADUATES

ENGL 101 INTRODUCTION TO POETRY.
3 HOURS

08557	LECT-DISC	A	8	MTUWTHF	143	A H
		A	12	M	143	A H
08565	LECT-DISC	E	1	MTUWTHF	149	ADMIN
		E	4	TH	149	ADMIN

ENGL 102 INTRODUCTION TO THE DRAMA.
3 HOURS

08573	LECT-DISC	F	2	MTUWTHF	143	A H
		F	4	TU	143	A H

ENGL 103 INTRODUCTION TO FICTION.
3 HOURS

08581	LECT-DISC	D	11	MTUWTHF	201	E 8
		D	12	TH	201	E 8
08590	LECT-DISC	E	1	MTUWTHF	143	A H
		E	4	M	143	A H

ENGL 115 MASTERPIECES OF ENGLISH LITERATURE.
3 HOURS

08602	LECT-DISC	B	9	MTUWTHF	143	A H
		B	12	TU	143	A H

ENGL 116 MASTERPIECES OF AMERICAN LITERATURE.
3 HOURS

08611	LECT-DISC	C	10	MTUWTHF	143	A H
		C	12	W	143	A H
08629	LECT-DISC	D	11	MTUWTHF	307	G H
		D	12	TH	307	G H

ENGL 131 INTRODUCTION TO SHAKESPEARE.
PREREQUISITE: SOPHOMORE STANDING OR EXEMPTION FROM RHET. 102. OR DESIGNATION AS AN EDMUND J. JAMES SCHOLAR.
3 HOURS

08637	LECT-DISC	B	9	MTUWTHF	143	ADMIN
		B	12	TU	143	ADMIN
08645	LECT-DISC	G	3	MTUWTHF	149	ADMIN
		G	4	W	149	ADMIN

ENGL 231 SHAKESPEARE, I.
3 HOURS

08653	LECT-DISC	D	11	MTUWTHF	117	E 8	A KAUFMAN
		D	12	TH	117	E 8	

ENGL 232 SHAKESPEARE, II.
3 HOURS

08661	LECT-DISC	F	2	MTUWTHF	142	ADMIN	HINELY
		F	12	F	142	ADMIN	

ENGL 245 ENGLISH LITERATURE FROM 1688 TO 1789.
PREREQUISITE: JUNIOR STANDING.
3 HOURS

08670	LECT-DISC	A	8	MTUWTHF	142	ADMIN	HOTCH
		A	12	M	142	ADMIN	

ENGL 252 GREAT ENGLISH NOVELISTS OF THE NINETEENTH CENTURY.
3 HOURS

08688	LECT-DISC	C	10	MTUWTHF	142	ADMIN	KRAMER
		C	12	W	142	ADMIN	

ENGL 255 SURVEY OF AMERICAN LITERATURE, I.
*CREDIT IS NOT GIVEN FOR BOTH ENGL. 113 AND 255.
*3 HOURS

08696	LECT-DISC	C	10	MTUWTHF	143	ADMIN	HAMILTON
		C	12	W	143	ADMIN	

ENGL 256 SURVEY OF AMERICAN LITERATURE, II.
*CREDIT IS NOT GIVEN FOR BOTH ENGL. 114 AND 256.
*3 HOURS

08709	LECT-DISC	A	8	MTUWTHF	117	E 8	WHISNANT
		A	12	M	117	E 8	
08717	LECT-DISC	D	11	MTUWTHF	143	ADMIN	HAMILTON
		D	12	TH	143	ADMIN	

ENGL 263 EARLY VICTORIAN LITERATURE.
3 HOURS

08725	LECT-DISC	F	2	MTUWTHF	149	ADMIN	MILLET
		F	4	M	149	ADMIN	

ENGL 273 POETRY SINCE 1920.
PREREQUISITE: SIX HOURS OF ENGLISH LITERATURE OR CONSENT OF INSTRUCTOR.
3 HOURS

08733	LECT-DISC	A	8	MTUWTHF	149	ADMIN	HOGAN
		A	12	M	149	ADMIN	

ENGL 281 DEVELOPMENT OF THE MODERN DRAMA, I.
3 HOURS

08741	LECT-DISC	D	11	MTUWTHF	149	ADMIN	HURT
		D	12	TH	149	ADMIN	

ENGL 282 DEVELOPMENT OF THE MODERN DRAMA, II.
3 HOURS

08750	LECT-DISC	C	10	MTUWTHF	148	ADMIN	STOTTLAR
		C	12	W	148	ADMIN	STOTTLAR

ENGL 284 ENGLISH LITERATURE IN THE TWENTIETH CENTURY, II.
3 HOURS

08768	LECT-DISC	G	3	MTUWTHF	142	ADMIN	LOFTUS
		G	4	F	142	ADMIN	

ENGL 285 THE SHORT STORY, I.
PREREQUISITE: ONE COURSE IN ENGLISH OR AMERICAN LITERATURE.
3 HOURS

08776	LECT-DISC	E	1	MTUWTHF	142	ADMIN	CURLEY
		E	4	TH	142	ADMIN	

ENGL 286 THE SHORT STORY, II.
PREREQUISITE: ONE COURSE IN ENGLISH OR AMERICAN LITERATURE.
3 HOURS

08784	LECT-DISC	8	9	MTUWTHF	149	ADMIN	FUMENTO
		8	12	TU	149	ADMIN	

ENGL 288 THE TWENTIETH CENTURY AMERICAN NOVEL.
3 HOURS

08792	LECT-DISC	8	9	MTUWTHF	117	E B	WHISNANT
		8	12	TU	117	E 8	

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

ENGL 303 HISTORICAL INTRODUCTION TO THE ENGLISH LANGUAGE.
PREREQUISITE: ENGL. 386.
3 HOURS OR 3/4 UNIT

08805	LECT-DISC	C	10	MTUWTHF	252	ADMIN	HURT
		C	12	W	252	ADMIN	

ENGL 336 ENGLISH DRAMA EXCLUSIVE OF SHAKESPEARE.
3 HOURS OR 3/4 UNIT

08813	LECT-DISC	A	8	MTUWTHF	143	ADMIN	KAY
		A	12	M	143	ADMIN	

ENGL 342 THE POETRY OF MILTON.
3 HOURS OR 3/4 UNIT

08821	LECT-DISC	E	1	MTUWTHF	143	ADMIN	U M KAUFMANN
		E	12	F	143	ADMIN	

ENGL 345 THE METAPHYSICAL POETS.
3 HOURS OR 3/4 UNIT

08830	LECT-DISC	F	2-4	M W F	143	ADMIN	U M KAUFMANN

ENGL 348 SWIFT, POPE, AND FIELDING.
PREREQUISITE: A COURSE IN ENGLISH LITERATURE.
3 HOURS OR 3/4 UNIT

08848	LECT-DISC	8	9	MTUWTHF	142	ADMIN	HOTCH
		8	12	TU	142	ADMIN	

ENGL 382 THE PLAYS OF 8ERNARD SHAW.
3 HOURS OR 3/4 UNIT

08856	LECT-DISC	D	11	MTUWTHF	143	A H	STOTTLAR
		D	12	TH	143	A H	

ENGL 386 MODERN ENGLISH GRAMMAR AND USAGE.
3 HOURS OR 3/4 UNIT
*TOPIC--EMPHASIS ON TRANSFORMATIONAL GRAMMAR.

08864	LECT-DISC	C	10	MTUWTHF	108	E B	TI88ETTS
		C	12	W	108	E 8	
08872	LECT-DISC	*D	11	MTUWTHF	259	E B	FOX
		*D	12	TH	259	E 8	

COURSES FOR GRADUATES

ENGL 408 STUDIES IN CHAUCER AND HIS TIMES, II
1 UNIT

08881	LECT-DISC	F	2-4	M W	140	ADMIN	CAMP8ELL

ENGL 413 STUDIES IN SHAKESPEARE.
1 UNIT

08899	LECT-DISC	C	10-12	M W	140	ADMIN	COLE

ENGL 421 STUDIES IN EIGHTEENTH CENTURY LITERATURE, I.
1 UNIT

08901	LECT-DISC	M	10-12	TU TH	140	ADMIN	SANDERS

ENGL 433 MAJOR MOVEMENTS IN MODERN BRITISH POETRY AND DRAMA.
1 UNIT

08910	LECT-DISC	A	8-10	M W	140	ADMIN	E 8RANDABUR

ENGL 434 MAJOR MOVEMENTS IN MODERN BRITISH FICTION.
1 UNIT
08928 LECT-DISC H 4 MTUWTH 140 ADMIN LOFTUS

ENGL 438 STUDIES IN AMERICAN LITERATURE AFTER 1800.
PREREQUISITE: SURVEY COURSE IN AMERICAN LITERATURE OR CONSENT OF INSTRUCTOR.
1 UNIT
08936 LECT-DISC X 12 MTUWTH 140 ADMIN MOAKE

ENGL 447 BACKGROUND MATERIALS FOR HIGH SCHOOL TEACHERS OF ENGLISH.
1 UNIT
08944 LECT-DISC F 2-4 TU TH 143 ADMIN HOOK

ENGL 463 PROBLEMS IN SHAKESPEARE.
1 UNIT
08952 LECT-DISC E 1-3 M W 148 ADMIN COLE

ENGL 471 PROBLEMS IN EIGHTEENTH-CENTURY LITERATURE.
PREREQUISITE: ENGL. 421, 422, OR EQUIVALENT OR CONSENT OF INSTRUCTOR.
1 UNIT
08961 LECT-DISC B 9-12 F 140 ADMIN DUSSINGER

ENGL 478 PROBLEMS IN PROSE FICTION, II.
PREREQUISITE: SECOND-YEAR GRADUATE STANDING.
1 UNIT
08979 LECT-DISC E 1-4 F 140 ADMIN KRAMER

ENGL 484 PROBLEMS IN TWENTIETH CENTURY ENGLISH LITERATURE.
PREREQUISITE: CONSENT OF INSTRUCTOR, OR A SURVEY OF ENGLISH LITERATURE.
1 UNIT
TOPIC: PROSE OF JAMES JOYCE.
08987 LECT-DISC K 8-10 TU TH 140 ADMIN E BRANDABUR

ENGL 491 RESEARCH IN SPECIAL TOPICS.
*THIS COURSE MAY BE REPEATED FOR A TOTAL OF TWO UNITS
*1 UNIT
RESTRICTED TO TRIPLE-T DOCTORAL CANDIDATES.
08995 CONF ARR HOOK, PURVES

ENGL 497 INDEPENDENT READING.
PREREQUISITE: CONSENT OF INSTRUCTOR OF REQUISITE 300 LEVEL COURSE.
*STUDENTS MAY ACCUMULATE 1/2 UNIT.
*1/4 UNIT
09000 CONF ARR STAFF

ENGL 499 THESIS RESEARCH.
0 TO 2 UNITS
INSTRUCTORS: ALTENBERND, ASTON, BARKER, BERRY, BRANDABUR CAMPBELL, DAVIDSON, FLANAGAN, GREEN, HENDRICK, HOLADY, HOOK, U. M. KAUFMANN, KRAMER, LOFTUS, MARDER, MILLET, MILLIGAN, PURVES, ROGERS, SCOTT, SHATTUCK, SMALLEY, STILLINGER, WASSON, WILKIE, AND WILSON.
09018 CONF ARR STAFF

DEPARTMENT OFFICE 320 MOR HALL

MAJOR: TWENTY HOURS IN ENTOMOLOGY, EXCLUDING ENTOM. 101, 103 ZOOL. 318 AND 321 MAY BE APPLIED FOR MAJOR CREDIT. AT LEAST FIVE HOURS MUST BE TAKEN FROM THE ADVANCED GROUP.

MINORS: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: AGRONOMY, BOTANY, CHEMISTRY, HORTICULTURE, MICROBIOLOGY, PHYSIOLOGY, AND ZOOLOGY.

AS A GENERAL POLICY, STUDENTS WHO CONTEMPLATE EVENTUAL CAREERS IN ENTOMOLOGY ARE URGED TO USE THE UNDERGRADUATE YEARS TO GAIN THOROUGH GROUNDING IN THE FUNDAMENTALS OF PHYSICAL AND BIOLOGICAL SCIENCE, IN MATHEMATICS AND THE OTHER LIBERAL ARTS, AND IN THE TECHNIQUES OF COMMUNICATION. THE DEPARTMENT IS GLAD TO ADVISE STUDENTS IN REGARD TO THE MOST EFFECTIVE SCHEDULE OF STUDY TO SUIT THEIR PARTICULAR NEEDS.

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

ENTOM 302 CLASSIFICATION OF INSECTS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
4 HOURS OR 1 UNIT
1-3 DAY FIELD TRIPS TO BEGIN ON FRIDAYS.

09026	LECT	8	TUWTH	201	H H	SELANDER
	LAB	9-11	TUWTH	201	H H	SELANDER

ENTOM 306 SPECIAL PROBLEMS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
2 TO 5 HOURS, OR 1/4 OR 1 UNIT

09034	CONF	ARR				STAFF

ENTOM 312 ENTOMOLOGY FOR TEACHERS.
PREREQUISITE: ONE YEAR OF BIOLOGY, BOTANY, ZOOLOGY OR EQUIVALENT.
FIELD TRIPS.
3 HOURS OR 1/2 UNIT

09042	LAB-DISC	10-12	MTUW F	315	MOR HALL	DOWNES

COURSES FOR GRADUATES

ENTOM 499 THESIS--RESEARCH.
0 TO 2 UNITS
WORK MAY BE TAKEN IN THE FOLLOWING SUBJECTS:

A--MORPHOLOGY AND EMBRYOLOGY OF INSECTS	LARSEN, MACLEOD, STERNBURG
B--APPLIED AND MEDICAL ENTOMOLOGY	HORSFALL, KEARNS, LUCKMANN METCALF
C--SYSTEMATIC ENTOMOLOGY	MACLEOD, SELANDER, STANNARD
D--BIOLOGY AND ECOLOGY OF INSECTS	GHENT, HORSFALL, JAYCOX WALDBAUER
E--INSECT PHYSIOLOGY & TOXICOLOGY	FRAENKEL, FRIEDMAN, KEARNS, LARSEN, METCALF, STERNBURG, WALDBAUER, WILLIS

09051	CONF	ARR

DEPARTMENT OFFICE 340 COM W

REQUIREMENTS FOR L. A. S. STUDENTS
MAJOR: TWENTY HOURS IN FINANCE. A FINANCE MAJOR WHO CHOOSES ECONOMICS AS A MINOR MUST INCLUDE ALSO TWELVE HOURS IN A SECOND MINOR.

ECON. 108 OR ECON. 102 AND 103, ARE FUNDAMENTAL COURSES IN ECONOMICS AND ARE PREREQUISITES FOR COURSES IN FINANCE. STUDENTS WHO EXPECT TO DO ADVANCED WORK IN FINANCE SHOULD TAKE ECON. 108, OR ECON. 102 AND 103, IN THEIR SOPHOMORE YEAR. LIBERAL ARTS MAJORS IN FINANCE ARE ADVISED STRONGLY TO ELECT ACCY. 201 AND A COURSE IN STATISTICS.

MINORS: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, GEOLOGY, HISTORY, LAW, MATHEMATICS, PHILOSOPHY, POLITICAL SCIENCE, PSYCHOLOGY, SOCIOLOGY. THE CURRICULUM IN LATIN-AMERICAN STUDIES IS ACCEPTED AS A MINOR.

COURSES FOR UNDERGRADUATES

FIN 150 MONEY, CREDIT, AND BANKING.
PREREQUISITE: ECON. 103 OR 108.
3 HOURS

09069	LECT-DISC	C	10	MTUWTHFS	28	COM W	GUNTERMANN

COURSES FOR ADVANCED UNDERGRADUATES

FIN 254 AN INTRODUCTION TO BUSINESS FINANCIAL MANAGEMENT.
PREREQUISITE: ACCY. 105 OR 201, FIN. 150,
CREDIT OR REGISTRATION IN ECON. 172.
*CREDIT IS NOT GIVEN FOR BOTH FIN. 254 AND FIN. 257.
*3 HOURS

09077	LECT-DISC	A	8	MTUWTHFS	160	COM W	GILES
09085	LECT-DISC	D	11	MTUWTHFS	28	COM W	LEONARD

FIN 258 THE MONEY MARKET AND AMERICAN FINANCIAL INSTITUTIONS.
PREREQUISITE: ECON. 103 OR 108.
3 HOURS

09093	LECT-DISC	B	9	MTUWTHFS	160	COM W	GUNTERMANN

FIN 294 SENIOR RESEARCH.
PREREQUISITE: SENIOR STANDING.
2 TO 4 HOURS

09106	CONF		ARR				MEHR

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

FIN 370 RISKS AND RISK MANAGEMENT.
PREREQUISITE: ONE OF THE FOLLOWING: ACCY. 105 OR 201; ECON. 103 OR 108; FIN. 254 OR 257.
3 HOURS, OR 1/2 TO 1 UNIT

09114	LECT-DISC	D	11	MTUWTHF	166	COM W	MEHR

COURSES FOR GRADUATES

FIN 425 THE MONEY MARKET AND FINANCIAL STABILIZATION.
PREREQUISITE: FIN. 150.
1 UNIT

09122	LECT-DISC	A	8-10	M TH	28	COM W	LEONARD

FIN 490 INDIVIDUAL STUDY AND RESEARCH.
1/2 TO 1 UNIT

09131	CONF		ARR				MEHR

FIN 499 THESIS RESEARCH.
0 TO 2 UNITS
09149 LECT-DISC UTH 4-6 TH 28 COM W MEHR

FOOD SCIENCE
INCLUDING DAIRY TECHNOLOGY

FOOD SCIENCE

DEPARTMENT OFFICE 213 M H

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

F S 300 SPECIAL PROBLEMS.
PREREQUISITE: FOR UNDERGRADUATES A MINIMUM GRADE POINT AVERAGE OF 3.5; NOT OPEN TO STUDENTS ON PROBATION; SENIOR STANDING; CONSENT OF INSTRUCTOR AND HEAD OF DEPARTMENT; SPECIFIC APPROVAL OF THE ASSOCIATE DEAN IS REQUIRED IN ADVANCE OF REGISTRATION FOR A SECOND AND/OR THIRD SPECIAL PROBLEM COURSE.
*MAXIMUM OF 2 UNITS ALLOWABLE CREDIT.
*1 TO 5 HOURS, OR 3/4 TO 1 1/2 UNITS
SECTION &B IS OPEN TO JAMES SCHOLARS AND OTHER STUDENTS HAVING A MINIMUM GRADE POINT AVERAGE OF 4.0 AND MAY BE TAKEN IN CONJUNCTION WITH OTHER COURSES IN THIS DEPARTMENT SUBJECT TO APPROVAL OF INSTRUCTOR.
09157 CONF A ARR STAFF
09165 CONF &B ARR

COURSES FOR GRADUATES

F S 499 THESIS RESEARCH.
0 TO 2 UNITS
09173 CONF ARR STAFF

DAIRY TECHNOLOGY

OFFICE 104 D M B

COURSES FOR GRADUATES

D T 499 THESIS RESEARCH.
0 TO 2 UNITS
09181 CONF ARR STAFF

FORESTRY

DEPARTMENT OFFICE 219 M H

THE FORESTRY COURSES FOR ADVANCED UNDERGRADUATES ARE DESIGNED PRIMARILY FOR STUDENTS WHO ARE CANDIDATES FOR THE PROFESSIONAL DEGREE OF BACHELOR OF SCIENCE IN FORESTRY IN EITHER THE FOREST SCIENCE OR WOOD SCIENCE CURRICULUM. OTHER STUDENTS ARE ADMITTED TO MOST OF THESE COURSES, HOWEVER, IF THEY HAVE THE PREREQUISITES OR THE CONSENT OF THE INSTRUCTOR.

COURSES FOR ADVANCED UNDERGRADUATES

FOR 200 SPECIAL PROBLEMS.
PREREQUISITE: A MINIMUM GRADE-POINT AVERAGE OF 3.75; SENIOR STANDING; CONSENT OF INSTRUCTOR AND HEAD OF DEPARTMENT. SPECIFIC APPROVAL OF THE ASSOCIATE DEAN IS REQUIRED IN ADVANCE OF REGISTRATION FOR A SECOND AND/OR THIRD SPECIAL PROBLEM COURSE.
1 TO 3 HOURS
09190 CONF ARR STAFF

FOR 211 FOREST ECOLOGY.
PREREQUISITE: BOT. 100 AND ZOOL. 104, OR ONE YEAR OF BIOLOGY.
3 HOURS
09202 LAB-DISC ARR FISHER

FOR 221 INTRODUCTION TO FOREST MEASUREMENTS (SUMMER CAMP).
PREREQUISITE: REGISTRATION IN SUMMER CAMP.
3 HOURS
09211 LAB-DISC ARR YOCOM

FOR 231 WOOD UTILIZATION--SUMMER CAMP.
PREREQUISITE: REGISTRATION IN SUMMER CAMP.
2 HOURS
09229 LAB-DISC ARR WALTERS

COURSES FOR GRADUATES

FOR 401 SPECIAL PROBLEMS.
*NOT MORE THAN ONE UNIT MAY BE OFFERED TOWARD AN M.S. DEGREE.
*1/2 OR 1 UNIT
09237 CONF ARR GRADUATE STAFF

FOR 499 THESIS RESEARCH.
1 TO 3 UNITS
09245 CONF ARR GRADUATE STAFF

DEPARTMENT OFFICE 244 L H

MAJOR: TWO TYPES OF MAJOR PROGRAMS ARE OFFERED: THE MAJOR IN FRENCH LITERATURE AND THE MAJOR IN FRENCH LANGUAGE AND LINGUISTICS. BOTH MAJORS PROVIDE SUITABLE PREPARATION FOR GRADUATE STUDY IN THE APPROPRIATE AREAS. (THE MAJOR IN FRENCH LITERATURE PROVIDES PREPARATION FOR GRADUATE WORK IN FRENCH. THE MAJOR IN FRENCH LANGUAGE AND LINGUISTICS PREPARES FOR GRADUATE WORK IN LINGUISTICS (SEE LINGUISTICS IN GRADUATE COLLEGE BULLETIN), AND PROVIDES PREPARATION FOR GRADUATE WORK IN THE DEPARTMENT OF FRENCH WITH THE ADDITION OF APPROPRIATE COURSES IN FRENCH LITERATURE TO BE DETERMINED BY THE ADVISOR.)

THE MAJOR IN FRENCH LITERATURE MUST COMPLETE FRENCH 201-202 AND SIX SEMESTER COURSES IN FRENCH LITERATURE AT THE 200-LEVEL AND ABOVE, EXCLUDING FRENCH 255-256, WITH THE PROVISION THAT NO MORE THAN TWO COURSES MAY BE CHOSEN FROM THE GROUP 207-208-209. STUDENTS ARE STRONGLY ADVISED TO TAKE A YEARS WORK IN EUROPEAN HISTORY AND A YEARS WORK IN ENGLISH LITERATURE.

THE MAJOR IN FRENCH LANGUAGE AND LINGUISTICS MUST COMPLETE FRENCH 211-212 AND 20 HOURS OF COURSES AT THE 200-LEVEL AND ABOVE, INCLUDING FRENCH 201-202 AND FRENCH 311, 313, 314, AND 316. A MINOR, MINIMUM 8 HOURS, IS STRONGLY RECOMMENDED IN LINGUISTICS OR IN A SECOND FOREIGN LANGUAGE, SUBJECT TO THE PROVISIONS LISTED BELOW UNDER THE MINOR REQUIREMENTS. STUDENTS ARE STRONGLY ADVISED TO TAKE LINGUISTICS 300, INTRODUCTION TO LINGUISTICS.

STUDENTS WHO INTEND TO TEACH FRENCH IN SECONDARY SCHOOLS ARE REFERRED TO THE STATEMENT OF REQUIREMENTS UNDER TEACHER EDUCATION CURRICULA IN THE BULLETIN ON UNDERGRADUATE STUDY.

MINORS: TWENTY HOURS IN NOT MORE THAN TWO OF THE FOLLOWING SUBJECTS, EXCLUDING THE FIRST TWO SEMESTERS OF MODERN FOREIGN LANGUAGE AND RHETORIC 101 AND 102, WITH AT LEAST EIGHT HOURS IN EACH SUBJECT IF TWO ARE CHOSEN: EDUCATION, ENGLISH, GERMAN, GREEK, HISTORY, HUMANITIES, ITALIAN, LATIN, LIBRARY SCIENCE, LINGUISTICS, MEDIEVAL CIVILIZATION STUDIES, PHILOSOPHY, PORTUGUESE, RUSSIAN, SPANISH, OR AN APPROVED SEQUENCE IN HISTORY OF ARCHITECTURE, HISTORY OF ART, OR MUSIC, NOT INCLUDING APPLIED MUSIC, COMBINED WITH ANY ONE OF THE ABOVE SUBJECTS. WITH THE WRITTEN APPROVAL OF THE DEPARTMENT ADVISER, OTHER SUBJECTS MAY BE SUBSTITUTED.

COURSES FOR UNDERGRADUATES

FR 101 ELEMENTARY COURSE, I.
FOR STUDENTS WHO HAVE NO CREDIT IN FRENCH.
NO CREDIT TOWARD GRADUATION IS GIVEN FOR FR. 101 WITHOUT FR. 102.
4 HOURS
ALL STUDENTS IN THIS COURSE ARE REQUIRED TO REGISTER FOR TWO HOURS OF WORK WEEKLY IN THE LANGUAGE LABORATORY, 202-204 LINCOLN HALL,

09253	LECT-DISC		8-10	MTU THF	262	L H

FR 102 ELEMENTARY COURSE, II.
PREREQUISITE: FR. 101 OR ONE YEAR OF HIGH SCHOOL FRENCH.
4 HOURS
ALL STUDENTS IN THIS COURSE ARE REQUIRED TO REGISTER FOR TWO HOURS OF WORK WEEKLY IN THE LANGUAGE LABORATORY, 202-204 LINCOLN HALL,

09261	LECT-DISC		8-10	MTU THF	329	G H

FR 103 MODERN FRENCH, I.
PREREQUISITE: FR. 102 OR TWO YEARS OF HIGH SCHOOL FRENCH.
4 HOURS

09270	LECT-DISC	A1	8-10	MTU THF	132	L H	
09288	LECT-DISC	A2	8-10	MTU THF	325	G H	SMART

FR 104 MODERN FRENCH, II.
PREREQUISITE: FR. 103 OR THREE YEARS OF HIGH SCHOOL FRENCH.
4 HOURS

09296	LECT-DISC		8-10	MTU THF	327	G H

COURSES FOR ADVANCED UNDERGRADUATES

FR 201 INTRODUCTION TO FRENCH LITERATURE, I.
PREREQUISITE: FR. 104 OR 106 OR FOUR YEARS OF HIGH SCHOOL FRENCH.
3 HOURS

09309	LECT-DISC		1-3	M W F	329	G H		SHINALL

FR 202 INTRODUCTION TO FRENCH LITERATURE, II.
PREREQUISITE: FR. 104 OR 106 OR FOUR YEARS OF HIGH SCHOOL FRENCH.
3 HOURS

09317	LECT-DISC		10-12	M W F	329	G H		GRAY

FR 211 ORAL FRENCH, I
PREREQUISITE: FR. 104 OR 106, OR 103 AND 113, OR FOUR YEARS OF HIGH SCHOOL FRENCH. PRACTICE IN LANGUAGE LABORATORY IS REQUIRED.
3 HOURS

09325	LECT-DISC	C1	10-12	M W F	325	G H		SAGI
09333	LECT-DISC	C2	10-12	M W F	49	L I R		

FR 212 ORAL FRENCH, II
PREREQUISITE--FR. 211. WITH PERMISSION, FR. 212 MAY BE TAKEN WITH 211 IN THE SUMMER SESSION.
3 HOURS

09341	LECT-DISC		1-3	M W F	325	G H		SAGI

FR 214 COMPOSITION, II.
PREREQUISITE: FR. 213.
2 HOURS

09350	LECT-DISC		3	MTU THF	325	G H		

FR 291 THESIS AND HONORS, I.
PREREQUISITE: SENIOR STANDING.
2 HOURS

09368	LECT-DISC	&	ARR					

NOTE: ALL ADVANCED UNDERGRADUATE COURSES IN FRENCH EXCEPT FR. 382 HAVE THE FOLLOWING PREREQUISITE: FR. 201 AND 202 OR EQUIVALENT.

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

FR 311 DICTION.
IT IS RECOMMENDED THAT FR. 311 AND 313 BE TAKEN CONCURRENTLY.
PREREQUISITE: CONSENT OF INSTRUCTOR.
2 HOURS OR 1/2 UNIT

09376	LECT-DISC	D1	11	MTU THF	236	L H		SHINALL
09384	LECT-DISC	D2	11	MTU THF	262	L H		

FR 313 PHONETICS.
IT IS RECOMMENDED THAT FR. 313 AND 311 BE TAKEN CONCURRENTLY.
PREREQUISITE: CONSENT OF INSTRUCTOR.
3 HOURS OR 3/4 UNIT
*TWO HOURS OF LABORATORY TO BE ARRANGED.

09392	LECT-DISC		*1-3	TU TH	329	G H		MYERS

FR 314 SYNTAX.
PREREQUISITE: FR. 213 AND 214, OR 215, OR EQUIVALENT.
3 HOURS OR 3/4 UNIT

09405	LECT-DISC		1-3	M W F	331	G H		

FR 335 FRENCH CIVILIZATION, I.
3 HOURS OR 3/4 UNIT

09413	LECT-DISC		1-3	M W F	327	G H		MAINOUS

FR 382 LANGUAGE LABORATORY TECHNIQUES.
SAME AS GER., SLAV., AND SPAN. 382.
PREREQUISITE: THREE YEARS OF MODERN FOREIGN LANGUAGE AT THE COLLEGE LEVEL, OR THE EQUIVALENT.
2 HOURS OR 1/2 UNIT

09421	LECT-DISC		10	MTU THF	236	L H		

FR 400 BEGINNING FRENCH FOR GRADUATE STUDENTS.
4 HOURS

09430	LECT-DISC	A	8-10	MTU THF	140	L H	
09448	LECT-DISC	C	10-12	MTU THF	140	L H	

FR 401 READING FRENCH FOR GRADUATE STUDENTS.
PREREQUISITE: FR. 400, OR FR. 101 AND 102, OR EQUIVALENT.
4 HOURS

09456	LECT-DISC	A	8-10	MTU THF	331	G H	
09464	LECT-DISC	C	10-12	MTU THF	331	G H	

FR 425 EXPLICATION DE TEXTES, I.
PREREQUISITE: GRADUATE STANDING IN FRENCH.
1 UNIT

09472	LECT-DISC	8-10	M W	49	L I R	BARRETTE

FR 441 STUDIES IN TWENTIETH CENTURY FRENCH LITERATURE, I.
PREREQUISITE: GRADUATE STANDING IN FRENCH.
1 UNIT

09481	LECT-DISC	10-12	TU TH	327	G H	GRAY

FR 449 INTRODUCTION TO OLD FRENCH LANGUAGE AND LITERATURE.
1 UNIT

09499	LECT-DISC	8-10	TU TH	49	L I R	BARRETTE

FR 473 SEMINAR IN EIGHTEENTH CENTURY FRENCH LITERATURE.
*COURSE MAY BE REPEATED FOR CREDIT.
*1 UNIT

09501	LECT-DISC	3-5	TU TH	49	L I R	JOST

FR 491 INDIVIDUAL TOPICS.
PREREQUISITE: GRADUATE STANDING WITH A MAJOR OR MINOR IN FRENCH.
1/4 TO 1 UNIT

09510	LECT-DISC	ARR

FR 499 THESIS RESEARCH.
0 TO 2 UNITS

09528	CONF	ARR

GENERAL EDUCATION

STUDENTS WHO ENTER THE SCIENCE AND LETTERS CURRICULUM IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES OR WHO ENTER OTHER SCHOOLS AND SUBSEQUENTLY TRANSFER TO THE COLLEGE ARE REQUIRED TO COMPLETE AT LEAST ONE APPROVED SEQUENCE IN EACH OF THESE AREAS: HUMANITIES, BIOLOGICAL SCIENCE, PHYSICAL SCIENCE, AND SOCIAL SCIENCE.

THE FOLLOWING SEQUENCES HAVE BEEN APPROVED.

BIOLOGICAL SCIENCE

BIOL 100, 101
PHYSL 103 OR 203, PSYCH 103
OR ANY EIGHT HOURS OF COURSES OFFERED BY THE SCHOOL OF LIFE SCIENCES.
RECOMMENDED COURSES ARE:

BOT 100 OR 101	MCBIO 100 AND 101
ENTOM 103	PHYSL 103 OR 203
	ZOOL 104

HUMANITIES

A SIX HOUR SEQUENCE IN ONE FOREIGN LITERATURE AT THE 200 AND 300 LEVEL (NOT LANGUAGE COURSES).

ART 111, 112, PLUS EITHER
A 300 COURSE IN HISTORY
OF ART OR PHIL 323
CLCIV 301, 302
ENGL 101, 102, 103
ENGL 115, 116 PLUS EITHER
131 OR AN ADVANCED COURSE
INVOLVING THE STUDY OF
LITERATURE IN DEPTH (255,
256, 257, 258, 370, 387,
AND 388 ARE EXCLUDED).
ENGL 195, 196
ENGL 251, 252, 253, 287 (ANY
TWO OF THESE FOUR COURSES).
ENGL 338, 339, 340 (ANY TWO
OF THESE THREE COURSES).
FRENCH 255, 256
HIST 131, 132
HIST 191, 192
HIST 323, 324
HUMAN 151, 152
HUMAN 201, 202
HUMAN 211, 212
HUMAN 215, 216
HUMAN 363, 364
LAS 161, 162
MUSIC 130, 131
MUSIC 130, 316, 317 AND ANY
ONE OF THE FOLLOWING: 103
105, OR 321.
PHIL 101, 102
PHIL 303, 306
RUSS 115, 116
SPEECH 177, 178

PHYSICAL SCIENCE

ASTR 101, 102
CHEM, ANY 8 HOURS
GEOG 102, 103
GEOL 101, 102
L A S 141, 142
MATH 118, 119 OR ANY
OTHER 8 HOUR SEQUENCE
NOT INCLUDING MATH. 101
OR 118.
MATH 124, 134
PHYCS, ANY 8 HOURS

SOCIAL SCIENCE

ANTH 102, 103
ECON 108 AND ANY
ONE OR TWO OF THE
FOLLOWING COURSES:
ECON 214, 240, 255
288, 328, 350
GEOG 104, 105
HIST 111, 112
HIST 151, 152
HIST 191, 192
HIST 260, 261, 262
L A S 174 AND ANY ONE
OF THE FOLLOWING
ANTH 100, POL S 150,
SOC 100
PHIL 103, 104
POL S 184, 191
POL S 191, 192
PSYCH 100, OR 105 AND
ANY ONE OF THE FOLLOW-
ING: 201, 216, 248, 250
SOC 100 AND ANY ONE OF THE
FOLLOWING 212, 218, OR
223
SOC 151, 152 (OR 275)

GENERAL ENGINEERING

DEPARTMENT OFFICE 117 T B

G E 010 SUMMER SCIENCE TRAINING PROGRAM FOR HIGH SCHOOL STUDENTS.
NO CREDIT
THIS PROGRAM IS DESIGNED TO FAMILIARIZE SELECTED HIGH SCHOOL STUDENTS WITH PAST ACHIEVEMENTS, CURRENT RESEARCH AND PRACTICE, AND FUTURE NEEDS IN SCIENCE AND ENGINEERING. ENROLLMENT IS LIMITED TO SUCCESSFUL APPLICANTS TO A 6 WEEK SUMMER SCIENCE TRAINING PROGRAM SPONSORED BY THE NATIONAL SCIENCE FOUNDATION TO BE HELD FROM JUNE 22 TO JULY 31.

19314	LAB-DISC	A	8-12	MTUWTHF	216	T B
		A	1-4	MTUWTHF	216	T B
		A	8-12	MTUWTHF	201	T B
		A	1-4	MTUWTHF	201	T B

COURSES FOR UNDERGRADUATES

G E 103 ENGINEERING GRAPHICS, I.
*CREDIT IS NOT GIVEN FOR G. E. 103 IN ADDITION TO G. E. 101 OR 105.
*3 HOURS

09536	LAB-DISC	A11	7-9PM	MTUWTHFS	114	T B
09544	LAB-DISC	B11	10-12	MTUWTHFS	114	T B

COURSES FOR ADVANCED UNDERGRADUATES

G E 220 HISTORY OF ENGINEERING.
PREREQUISITE: JUNIOR STANDING OR CONSENT OF INSTRUCTOR.
3 HOURS

09552	LECT-DISC	E	1-220	MTU THF	143	P	B

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

G E 313 ADVANCED METHODS IN ENGINEERING GRAPHICAL COMPUTATIONS.
PREREQUISITE: MATH. 142 OR EQUIVALENT.
2 TO 4 HOURS, OR 1/2 TO 1 UNIT
*SECTION C IS RESTRICTED TO ELECTRONICS INSTRUCTORS SELECTED TO PARTICIPATE IN ELECTRONICS TECHNOLOGY CURRICULUM DEVELOPMENT PROJECT. PLUS ONE ADDITIONAL HOUR TO BE ARRANGED. CREDIT--4 HOURS OR 1 UNIT.

09561	LECT-DISC	*C	1	MTUWTHF	158	P	B

G E 393 SPECIAL PROBLEMS.
PREREQUISITE: SENIOR STANDING OR CONSENT OF INSTRUCTOR.
1 TO 4 HOURS, OR 1/2 TO 1 UNIT
*SECTIONS A, B AND S ARE RESTRICTED TO SUCCESSFUL APPLICANTS TO AN 8-WEEK SUMMER INSTITUTE SPONSORED BY THE NATIONAL SCIENCE FOUNDATION FOR INSTRUCTORS IN JUNIOR COLLEGES AND TECHNICAL INSTITUTES TEACHING IN TECHNICAL AND PRE-ENGINEERING CURRICULA.
*SECTION A COVERS APPLIED MATHEMATICS FOR MECHANICAL SYSTEMS.
CREDIT--4 HOURS OR 1 UNIT.
*SECTION B COVERS APPLIED MATHEMATICS FOR ELECTRICAL SYSTEMS.
CREDIT--4 HOURS OR 1 UNIT.
*SECTION C IS FOR GENERAL ENGINEERING STUDENTS.
*SECTION GO IS AN HONORS SECTION.
SECTION S IS A TECHNICAL EDUCATION SEMINAR.
CREDIT--1 HOUR OR 1/2 UNIT.
*SECTION N IS A TECHNICAL EDUCATION SEMINAR RESTRICTED TO ELECTRONICS INSTRUCTORS SELECTED TO PARTICIPATE IN ELECTRONICS TECHNOLOGY CURRICULUM DEVELOPMENT PROJECT.
CREDIT--1 HOUR OR 1/2 UNIT.

09587	LECT-DISC	*A	10	M W F	136	P	B
		*A	1	TU TH	136	P	B
09595	LECT-DISC	*B	11	M W F	136	P	B
		*B	2	TU TH	136	P	B
09608	CONF	*C	ARR				
09616	CONF	*GO	ARR				
09624	LECT-DISC	*N	2-4	TU TH	158	P	B
09579	LECT-DISC	S	10-12	TU TH	136	P	B

GEOGRAPHY

DEPARTMENT OFFICE 220 O H

MAJOR: TWENTY HOURS IN GEOGRAPHY IN ADDITION TO GEOGRAPHY 103. AT LEAST FIFTEEN OF THE TWENTY HOURS MUST BE IN COURSES CARRYING ADVANCED CREDIT. INDIVIDUAL PROGRAMS ARE ARRANGED FOR MAJOR STUDENTS WITH THE FOLLOWING SPECIAL INTERESTS: LIBERAL EDUCATION, BUSINESS, CARTOGRAPHY, GOVERNMENT, TEACHING, OR GRADUATE STUDY. THESE PROGRAMS INCLUDE DEPARTMENTAL COURSES, MINOR FIELDS, AND RECOMMENDED ELECTIVES.

MINORS: TWENTY HOURS IN ONE OR TWO COLLEGE OF LIBERAL ARTS AND SCIENCES DEPARTMENTS OR IN INTERDEPARTMENTAL PROGRAMS APPROVED BY THE COLLEGE. MINOR PROGRAMS IN DEPARTMENTS OUTSIDE THE COLLEGE OF LIBERAL ARTS AND SCIENCES MAY BE ARRANGED IN CONSULTATION WITH THE DEPARTMENTAL ADVISER AND WITH THE APPROVAL OF THE DEAN OF THE COLLEGE. AT LEAST EIGHT HOURS OF THE TWENTY MINOR HOURS MUST BE TAKEN IN EACH IF THE STUDENT ELECTS TO MINOR IN TWO DIFFERENT DEPARTMENTS.

DEPARTMENTAL DISTINCTION: STUDENTS ELIGIBLE FOR GRADUATION WITH HONORS IN LIBERAL ARTS AND SCIENCES SHOULD CONSULT WITH THE DEPARTMENTAL ADVISER CONCERNING GRADUATION WITH DISTINCTION IN GEOGRAPHY.

COURSES FOR UNDERGRADUATES

GEOG 103 PHYSICAL GEOGRAPHY, II.
4 HOURS
(FORMERLY GEOG. 101).

09632	LECT	D	11	MTUWTH	113	D H	NUNNALLY
09641	LAB	A	8-10	M W	323	D H	
09659	LAB	R	1-3	TU TH	323	D H	
09667	QUIZ	1	8	TU TH	323	D H	
09675	QUIZ	6	1	M W	323	D H	

GEOG 104 WORLD REGIONAL GEOGRAPHY.
4 HOURS

09683	LECT	B	9	MTUWTH	113	D H	STAFF
	LAB-DISC	B	10	MTUWTH	113	D H	

GEOG 105 INTRODUCTORY ECONOMIC GEOGRAPHY.
4 HOURS

09691	LECT	C	10	MTUWTH	323	D H	ROEPKE
	LAB-DISC	C	11	MTUWTH	323	D H	

COURSES FOR ADVANCED UNDERGRADUATES

GEOG 272 INTRODUCTORY FIELD GEOGRAPHY.
5 TO 8 HOURS

09704	LAB	ARR	
	FIELD CAMP	ROCKVILLE, INDIANA	FOSTER AND JAKLE

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

GEOG 372 INTRODUCTION TO RESEARCH, II.
2 HOURS OR 1/2 UNIT

09712	CONF	ARR	NUNNALLY

COURSES FOR GRADUATES

GEOG 478 ADVANCED FIELD GEOGRAPHY.
PREREQUISITE: GRADUATE STANDING IN GEOGRAPHY.
1 1/4 TO 2 UNITS

09721	LAB	ARR	
	FIELD CAMP	ROCKVILLE, INDIANA	FOSTER AND JAKLE

GEOG 495 ADVANCED STUDIES IN GEOGRAPHY.
1/2 TO 2 UNITS
WORK MAY BE TAKEN IN THE FOLLOWING FIELDS:

CULTURAL, LATIN AMERICA	B	AUGELLI
ASIA, RESOURCE MANAGEMENT, TRANSPORTATION	C	BOOTH
MIDDLE EAST, ADVANCED CARTOGRAPHY	E	FOSTER
ANGLO AMERICA, POLITICAL GEOGRAPHY, REGIONALISM	F	GARLAND
ECONOMIC GEOGRAPHY, INDUSTRIAL LOCATION, EUROPE	G	ROEPKE
MARKETING GEOGRAPHY	H	RUSSELL
HUMAN ECOLOGY, U. S. S. R.	I	SHIMKIN
LATIN AMERICA	J	THOMPSON
CLIMATOLOGY, METEOROLOGY	K	LAHEY
HISTORICAL, CULTURAL AND POPULATION GEOGRAPHY	M	JAKLE
QUANTITATIVE GEOGRAPHY, REMOTE SENSORS, PHYSICAL GEOGRAPHY, AGRICULTURAL GEOGRAPHY.	N	NUNNALLY
SOCIAL GEOGRAPHY, MIGRATION, QUANTITATIVE METHODS	O	ROSEMAN
GEOMORPHOLOGY	S	SCHEIDEGGE

09739	CONF	E	ARR	FOSTER
09747	CONF	G	ARR	ROEPKE
09755	CONF	J	ARR	THOMPSON
09763	CONF	K	ARR	LAHEY
09771	CONF	M	ARR	JAKLE
09780	CONF	N	ARR	NUNNALLY
09798	CONF	O	ARR	ROSEMAN

GEOG 499 THESIS RESEARCH.
0 TO 2 UNITS

09801	CONF	ARR	STAFF

DEPARTMENT OFFICE 249 N H B

LAS CURRICULUM IN GEOLOGY: A TOTAL OF 130 HOURS OF CREDIT INCLUDING THE FOLLOWING COURSES: GEOLOGY 101, 102, 215, 301 OR 307 OR 357, 311, 32C, 321, 331, 332, 335 AND 336; CHEMISTRY 101 AND 102 OR CHEMISTRY 107 AND 108; PHYSICS 106, 107 AND 108; MATHEMATICS 120, 130 AND 140 AND 8 HOURS OF BIOLOGICAL SCIENCE.

LAS GENERAL CURRICULUM:

MAJOR: NOT LESS THAN TWENTY HOURS IN GEOLOGY, EXCLUDING ALL 100-LEVEL GEOLOGY COURSES EXCEPT GEOLOGY 115. INCLUDED MUST BE GEOLOGY 331 AND 332 OR GEOLOGY 233, GEOLOGY 320 AND 321 OR GEOLOGY 222, GEOLOGY 215, AND AT LEAST ONE ADDITIONAL 300-LEVEL COURSE IN GEOLOGY.

IN ADDITION THE STUDENT MUST COMPLETE EITHER CHEMISTRY 101 OR 107, PHYSICS 101 OR 106, AND MATHEMATICS 120.

MINORS: TWENTY HOURS CHOSEN FROM ONE OR TWO OF THE FOLLOWING SUBJECTS: ANTHROPOLOGY, ASTRONOMY, BOTANY, CHEMISTRY, CIVIL ENGINEERING, ECONOMICS, GEOGRAPHY, MATHEMATICS, MINING ENGINEERING, PHYSICS, AND ZOOLOGY, AFTER CONSULTATION WITH THE DEPARTMENT OF GEOLOGY. AT LEAST EIGHT HOURS MUST BE TAKEN IN EACH SUBJECT IF TWO ARE CHOSEN.

DEPARTMENTAL DISTINCTION: STUDENTS WHO MAINTAIN A MINIMUM GRADE-POINT AVERAGE OF 4.5 IN ALL GEOLOGY COURSES AND 4.0 IN ALL OTHER SCIENCE AND MATHEMATICS COURSES, AND WHO COMPLETE AN ACCEPTABLE BACHELOR'S THESIS BASED ON UNDERGRADUATE RESEARCH ARE RECOMMENDED FOR GRADUATION WITH DEPARTMENTAL DISTINCTION.

AT LEAST ONE YEAR OF GRADUATE WORK IS NECESSARY AS FURTHER TRAINING FOR ALL PROFESSIONAL WORK IN GEOLOGY. STUDENTS INTERESTED IN OCEANOGRAPHY SHOULD CONSULT WITH ADVISERS IN THE DEPARTMENT OF GEOLOGY.

COURSES FOR ADVANCED UNDERGRADUATES

GEOL 215 FIELD GEOLOGY.
PREREQUISITE: GEOL. 102; CONSENT OF INSTRUCTOR.
8 HOURS
09819 LAB-DISC ARR LANGENHEIM AND OTHERS

GEOL 290 RESEARCH AND THESIS.
CREDIT TO BE ARRANGED.
09827 CONF ARR STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

GEOL 315 ADVANCED FIELD METHODS.
PREPARATION OF A REPORT.
PREREQUISITE: GEOL. 215.
2 TO 8 HOURS, OR 1/2 TO 2 UNITS
09835 LAB-DISC ARR STAFF

GEOL 493 ADVANCED STUDIES IN GEOLOGY.
1/2 TO 2 UNITS
A--CLAY MINERALOGY
B--ENGINEERING GEOLOGY
C--GEOMORPHOLOGY AND GLACIAL GEOLOGY
D--GEOTECTONICS
E--GROUND-WATER GEOLOGY
F--MICROPALEONTOLOGY
G--MINERAL DEPOSITS
H--MINERALOGY AND CRYSTALLOGRAPHY
I--PALEONTOLOGY
J--GEOCHEMISTRY
K--GEOPHYSICS
L--PETROGRAPHY AND PETROLOGY
M--SEDIMENTOLOGY
N--STRATIGRAPHY
O--OCEANOGRAPHY AND OCEAN ENGINEERING
P--SUBMARINE GEOLOGY
Q--STRUCTURAL GEOLOGY

09843	CONF	A	ARR	EADES, GUVEN
09851	CONF	B	ARR	DEERE, PATTON
09860	CONF	C	ARR	WHITE, JOHNSON
09878	CONF	D	ARR	CAROZZI, WOOD
09886	CONF	E	ARR	DOMENICO
09894	CONF	F	ARR	COLLINSON, HAY AND SANDBERG
09907	CONF	G	ARR	HAGNER
09915	CONF	H	ARR	HENDERSON AND GUVEN
09923	CONF	I	ARR	BLAKE, HAY AND LANGENHEIM
09931	CONF	J	ARR	T ANDERSON, AND GRAF
09940	CONF	K	ARR	DONATH, HOLDER & PALCIAUSKAS
09958	CONF	L	ARR	CHAPMAN AND D ANDERSON
09966	CONF	M	ARR	CAROZZI, KLEIN AND STANLEY
09974	CONF	N	ARR	LANGENHEIM AND MANN
09982	CONF	O	ARR	STANLEY
09991	CONF	P	ARR	KLEIN, STANLEY
10008	CONF	Q	ARR	DONATH, WOOD

GEOL 499 THESIS RESEARCH.
0 TO 2 UNITS

10016	CONF		ARR	STAFF

GERMANIC LANGUAGES AND LITERATURES
DEPARTMENT OFFICE 371 L H

MAJOR: TWENTY-FOUR HOURS IN GERMAN, EXCLUDING GERMAN 101, 102, 103, 104, AND 113, AND INCLUDING GERMAN 302, 303, 320, AND ONE OTHER LITERATURE COURSE AT THE 300-LEVEL.

MINORS: TWENTY HOURS IN NOT MORE THAN TWO SUBJECTS CHOSEN FROM THE FOLLOWING LIST, WITH AT LEAST EIGHT HOURS IN EACH SUBJECT: EDUCATION, ENGLISH (EXCLUDING RHET. 101, 102, AND 200), FRENCH, GREEK, HISTORY, ITALIAN, LATIN, LIBRARY SCIENCE, LINGUISTICS (EXCLUDING LING. 301), MEDIEVAL CIVILIZATION STUDIES, PHILOSOPHY, PORTUGUESE, RUSSIAN, SCANDINAVIAN, AND SPANISH. THE FIRST SEMESTER OF ANY FOREIGN LANGUAGE (FR. 101, GRK. 101, ITAL. 101, LAT. 101, PORT. 101, RUSS. 101, SPAN. 101) MAY NOT BE COUNTED TOWARD A MINOR IN THAT LANGUAGE.

COURSES FOR UNDERGRADUATES

GER 101 ELEMENTARY COURSE, I.
*NO CREDIT TOWARD GRADUATION IS GIVEN FOR GER. 101 WITHOUT GER. 102.
*4 HOURS
ALL STUDENTS IN THIS COURSE MUST REGISTER FOR FOUR HALF-HOUR PERIODS OF WORK WEEKLY IN THE LANGUAGE LABORATORY.

10024	LECT-DISC	A	8-10	MTUWTH	336	L H
10032	LECT-DISC	G	3-5	MTUWTH	154	ADMIN
10041	LAB	M8	1030-11	MTUWTH	202	L H
10059	LAB	M16	230-3	MTUWTH	202	L H
10067	LAB	M18	330-4	MTUWTH	202	L H

GER 102 ELEMENTARY COURSE, II.
PREREQUISITE: GER. 101 OR ONE YEAR OF HIGH SCHOOL GERMAN.
4 HOURS
ALL STUDENTS IN THIS COURSE MUST REGISTER FOR FOUR HALF-HOUR PERIODS OF WORK WEEKLY IN THE LANGUAGE LABORATORY.

10075	LECT-DISC	C	10-12	MTUWTH	270	L H
10083	LAB	M9	11-1130	MTUWTH	202	L H
10091	LAB	M14	130-2	MTUWTH	202	L H
10104	LAB	M18	3-330	MTUWTH	202	L H

GER 103 INTERMEDIATE COURSE, I.
PREREQUISITE: GER. 102, TWO YEARS OF HIGH SCHOOL GERMAN, OR EQUIVALENT.
4 HOURS
STUDENTS MUST REGISTER FOR FOUR HALF-HOUR PERIODS OF WORK WEEKLY IN THE LANGUAGE LABORATORY.

10112	LECT-DISC	A	8-10	MTUWTH	270	L H
10121	LECT-DISC	G	3-5	MTUWTH	4	G H
10139	LAB	M8	1030-11	MTUWTH	202	L H
10147	LAB	M16	230-3	MTUWTH	202	L H
10155	LAB	M18	330-4	MTUWTH	202	L H

GER 104 INTERMEDIATE COURSE, II.
PREREQUISITE: GER. 103, OR THREE YEARS OF HIGH SCHOOL GERMAN, OR EQUIVALENT.
4 HOURS
STUDENTS MUST REGISTER FOR FOUR HALF-HOUR PERIODS OF WORK WEEKLY IN THE LANGUAGE LABORATORY.

10163	LECT-DISC	C	10-12	MTUWTH	4	G H
10171	LAB	M9	11-1130	MTUWTH	202	L H
10180	LAB	M14	130-2	MTUWTH	202	L H
10198	LAB	M18	3-330	MTUWTH	202	L H

GER 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS
10201 CONF ARR

COURSES FOR ADVANCED UNDERGRADUATES

GER 210 MASTERPIECES OF GERMAN LITERATURE.
PREREQUISITE: TWO YEARS OF COLLEGE GERMAN OR EQUIVALENT.
3 HOURS
10219 LECT-DISC C 10 MTUWTH 154 ADMIN HAILE AND
C 10-12 F 154 ADMIN FIGGE

GER 211 CONVERSATION AND WRITING, I.
PREREQUISITE: GER. 103 AND 113, OR GER. 104, OR EQUIVALENT.
3 HOURS
10227 LECT-DISC G 3-5 MTUWTH 1 G H FIGGE

GER 212 CONVERSATION AND WRITING, II.
PREREQUISITE: GER. 211 OR EQUIVALENT OR CONSENT OF INSTRUCTOR.
3 HOURS
10235 LECT-DISC E 1-3 MTUWTH 1 G H HOLST

GER 253 TWENTIETH CENTURY GERMAN DRAMA.
PREREQUISITE: GER. 210 OR EQUIVALENT.
3 HOURS
10243 LECT-DISC C 10-12 M W F 336 L H SCHWABE

GER 291 SENIOR THESIS AND HONORS COURSE, I.
PREREQUISITE: SENIOR STANDING, CONSENT OF INSTRUCTOR.
2 TO 4 HOURS
10251 CONF ARR

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

GER 311 GOETHE.
PREREQUISITE: GER. 210 AND ONE OTHER COURSE IN GERMAN LITERATURE
OR EQUIVALENT.
3 HOURS OR 3/4 UNIT
10260 LECT-DISC A 8 M W F 162 L H HAILE

GER 332 SCHILLER.
PREREQUISITE: GER. 210 AND ONE OTHER COURSE IN GERMAN LITERATURE
OR EQUIVALENT.
3 HOURS OR 3/4 UNIT
10278 LECT-DISC A 8-10 M WTH 429 LIB FREY

GER 382 LANGUAGE LABORATORY TECHNIQUES.
SAME AS FR., SLAV., AND SPAN. 382.
PREREQUISITE: THREE YEARS OF MODERN FOREIGN LANGUAGE AT THE COLLEGE
LEVEL. OR THE EQUIVALENT.
2 HOURS OR 1/2 UNIT
10286 LECT-DISC 10 MTU THF 236 L H NACHTMANN

COURSES FOR GRADUATES

GER 400 BEGINNING GERMAN FOR GRADUATE STUDENTS.
4 HOURS
10294 LECT-DISC C 10-12 MTUWTH 3 G H HOLST AND
10307 LECT-DISC E 1-3 MTUWTH 3 G H FON WEARINGA

GER 401 READINGS IN GERMAN FOR GRADUATE STUDENTS.
PREREQUISITE: GER. 400 OR EQUIVALENT.
4 HOURS
*SECTIONS A1 AND G1 DO READINGS PARTICULARLY IN THE HUMANITIES
AND SOCIAL SCIENCES. SECTIONS A2 AND G2 DO READINGS
IN THE NATURAL SCIENCES.
10315 LECT-DISC *A1 8-10 M W F 370 L H MARCHAND
10331 LECT-DISC *A2 8-10 M W F 4 G H
10323 LECT-DISC *G1 3-5 M WTH 370 L H SCHWABE
10340 LECT-DISC *G2 3-5 M WTH 388 L H

GER 453 SEMINAR IN LITERARY RELATIONS.
SAME AS C. LIT. 452.
*STUDENTS MAY ACCUMULATE 3 UNITS.
*1 UNIT

10358	LECT-DISC	B	9	TUWTH	154	ADMIN	VISTING PROF.
10366	LECT-DISC	D	11	TUWTH	154	ADMIN	HANS GALINSKY

GER 493 RESEARCH IN SPECIAL TOPICS.
*MAY BE REPEATED FOR A MAXIMUM OF 2 UNITS.
*1/4 TO 2 UNITS

10374	CONF	ARR

GER 499 THESIS RESEARCH.
0 TO 2 1/2 UNITS

10382	CONF	ARR

GERMANIC

GERMANIC LANGUAGES AND LITERATURES

DEPARTMENT OFFICE 371 L H

COURSES FOR UNDERGRADUATES

GMC 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS

10391	CONF	ARR

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

GMC 367 INTRODUCTION TO GERMANIC LINGUISTICS.
SAME AS LING. 367.
PREREQUISITE: COMPLETION OF THE FOREIGN LANGUAGE REQUIREMENT IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES, OR EQUIVALENT. SOME KNOWLEDGE OF GERMAN DESIRABLE.
2 HOURS OR 1/2 UNIT

10403	LECT-DISC	D	11	MTUWTH	240	ADMIN	MARCHAND

GREEK, MODERN--SEE MODERN GREEK

GREEK

DEPARTMENT OFFICE 361 L H

MAJOR: TWENTY HOURS. IN ADDITION, CLASSICAL CIVILIZATION 301-302 IS STRONGLY RECOMMENDED AS AN ELECTIVE.

MINORS: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: ENGLISH LITERATURE, FOREIGN LANGUAGE (LATIN BEING ESPECIALLY RECOMMENDED), HISTORY, LIBRARY SCIENCE, AND PHILOSOPHY.

CREDIT FOR NEW TESTAMENT GREEK TRANSFERRED FROM OTHER INSTITUTIONS IS NOT COUNTED TOWARD A MAJOR OR MINOR UNTIL AFTER THE SATISFACTORY COMPLETION OF GREEK 201-202 AND THEN ONLY TO A POSSIBLE MAXIMUM OF EIGHT HOURS AS THE EQUIVALENT OF GREEK 101-102 AND THREE HOURS AS THE EQUIVALENT OF ONE SEMESTER OF GREEK 391.

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

GRK 308 COMPARATIVE GRAMMAR OF GREEK AND LATIN.
SAME AS LAT. AND LING. 308.
PREREQUISITE: LAT. 202 OR EQUIVALENT, AND
REGISTRATION OR CREDIT IN GRK. 202.
3 HOURS OR 1/2 UNIT

10411	LECT-DISC	A	11	MTUWTHF	137	ADMIN	MILLER

UNLESS OTHERWISE NOTED, THE PREREQUISITE TO ALL COURSES IS THREE YEARS OF COLLEGE GREEK.

COURSES FOR GRADUATES

GRK 414 PINDAR.
1 UNIT

10420	LECT-DISC	A	2-4	M W F	409	LIB	BRIGHT

GRK 499 THESIS RESEARCH.
0 TO 2 UNITS

10438	CONF		ARR				STAFF

HEALTH EDUCATION

DEPARTMENT OFFICE 114 HUFF GYM

COURSES FOR UNDERGRADUATES

H ED 150 HEALTH AND MODERN LIFE.
PREREQUISITE: CREDIT OR REGISTRATION IN ZOOL. 104, OR CONSENT OF INSTRUCTOR.
3 HOURS
*ONE ADDITIONAL HOUR PER WEEK TO BE ARRANGED.

10446	LECT-DISC	A	*7-9	MTU	207	H G	STONE
		A	*8	WTH	207	H G	

COURSES FOR ADVANCED UNDERGRADUATES

H ED 281 FIRST AID.
2 HOURS
*ONE ADDITIONAL HOUR OF LAB TO BE ARRANGED.

10454	LECT-DISC	B	*9	MTUWTH	211	H G	STONE

H ED 289 HEALTH EDUCATION FIELD WORK.
PREREQUISITE: JUNIOR STANDING IN COMMUNITY HEALTH EDUCATION.
0 CREDIT

10462	LAB-DISC		ARR				STONE

COURSES FOR GRADUATES

H ED 404 TRENDS AND ISSUES IN SEX EDUCATION.
PREREQUISITE: UNDERGRADUATE COURSES BEYOND THE ELEMENTARY LEVEL IN BIOLOGICAL AND SOCIAL SCIENCES OR CONSENT OF INSTRUCTOR.
1 UNIT

10471	LECT-DISC	D	11	MTUWTH	207A	H G	HOYMAN

H ED 490 SEMINAR.
PREREQUISITE: H. ED. 495.
0 CREDIT

10489	LECT-DISC		8	TU TH	114	H G	HOYMAN

H ED 499 THESIS RESEARCH.
PREREQUISITE: H. ED. 495.
1/2 TO 2 UNITS

10497	CONF		ARR				HOYMAN, FLORIO AND STONE

HEALTH SCIENCE

DEPARTMENT OFFICE HEALTH CENTER

COURSES FOR ADVANCED UNDERGRADUATES

HL SC 200 MENTAL HEALTH.
2 HOURS

10500	LECT-DISC	P	11	MTUWTH	393	BEV HALL	GENT

HL SC 206 SEX EDUCATION AND FAMILY LIFE.
PREREQUISITE: JUNIOR STANDING OR CONSENT OF INSTRUCTOR.
2 HOURS

10518	LECT-DISC	B	9	MTUWTH	393	BEV HALL	TEIGLER
10526	LECT-DISC	C	10	MTUWTH	393	BEV HALL	TEIGLER

HISTORY

DEPARTMENT OFFICE 359 ARMORY

MAJOR: TWENTY-FOUR HOURS IN HISTORY, ALL IN COURSES HAVING JUNIOR STANDING AS A PREREQUISITE: ONE FRESHMAN-SOPHOMORE SURVEY COURSE SEQUENCE (HISTORY 111-112, 131-132, 151-152, 181-182, 191-192; DGS 121-122) OR ITS EQUIVALENT, MUST BE TAKEN AS A PREREQUISITE TO THE MAJOR. THE COURSES OFFERED MUST INCLUDE AT LEAST TWELVE HOURS IN AN AREA OF SPECIALIZATION AND AT LEAST SIX HOURS IN A SECOND AREA. THE FOLLOWING AREAS MAY BE SELECTED: ANCIENT, MEDIEVAL AND RENAISSANCE; EUROPE SINCE 1500; UNITED STATES AND LATIN AMERICA; ASIA. ALL MAJORS ARE REQUIRED TO TAKE HISTORY 298; TO BE ELIGIBLE FOR THIS COURSE, EACH MAJOR MUST HAVE SENIOR STANDING.

MINORS: TWENTY HOURS, NOT INCLUDING MORE THAN FOUR HOURS OPEN TO FRESHMEN, IN ONE OR TWO OF THE FOLLOWING: ANCIENT OR MODERN LANGUAGE EXCLUDING ELEMENTARY COURSES 101 AND 102, ANTHROPOLOGY, ECONOMICS, ENGLISH AND AMERICAN LITERATURE, GEOGRAPHY, LIBRARY SCIENCE, PHILOSOPHY, POLITICAL SCIENCE, PSYCHOLOGY, AND SOCIOLOGY. ONE OF THE CURRICULA IN LATIN AMERICAN STUDIES, RUSSIAN LANGUAGE AND AREA STUDIES, ASIAN STUDIES OR MEDIEVAL CIVILIZATION IS ALSO ACCEPTED AS A SOLE MINOR, EXCLUDING THE COURSES IN HISTORY.

COURSES FOR UNDERGRADUATES

HIST 111 HISTORY OF WESTERN CIVILIZATION TO 1815.
4 HOURS

10534	LECT		9	MTUWTH	223	G H	HILL
10542	DISC	A	10	MTUWTH	304	G H	
10551	DISC	B	11	MTUWTH	145	L H	

HIST 152 HISTORY OF THE UNITED STATES FROM 1865 TO THE PRESENT.
*CREDIT IS NOT GIVEN FOR BOTH HIST. 152 AND 262.
*4 HOURS

10569	LECT		9	MTUWTH	213	G H	KRUEGER
10577	DISC	A	10	MTUWTH	145	L H	
10585	DISC	B	10	MTUWTH	336	G H	
10593	DISC	C	11	MTUWTH	336	G H	
10606	DISC	D	11	MTUWTH	304	G H	
10614	DISC	E	1	MTUWTH	336	G H	

COURSES FOR ADVANCED UNDERGRADUATES

HIST 293 THESIS.
PREREQUISITE: HISTORY MAJOR WITH SENIOR STANDING AND A 4.0 GRADE-POINT AVERAGE, AND WRITTEN CONSENT OF THE HONORS ADVISOR.
*STUDENTS MAY ACCUMULATE 6 HOURS.
*3 HOURS

10622	CONF	ARR					STAFF

HIST 295 READING COURSE.
PREREQUISITE: JUNIOR OR SENIOR OF HIGH STANDING AND WRITTEN CONSENT OF THE HONORS ADVISOR.
2 TO 4 HOURS

10631	CONF	ARR					STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

NOTE--ONE YEAR OF COLLEGE HISTORY IS REQUIRED EXCEPT WHERE NOTED.

HIST 301 THE MIDDLE AGES, 400 TO 1100 A. D.
3 HOURS, OR 1/2 OR 1 UNIT

10649	LECT	2	MTUWTHFS	221	G	H	QUELLER

HIST 308 THE EUROPEANIZATION OF THE NEAR EAST, 1768 TO 1914.
3 HOURS, OR 1/2 OR 1 UNIT

10657	LECT	8	MTUWTHFS	221	G	H	DAWN

HIST 309 DEVELOPMENT OF MODERN EUROPE: ABSOLUTISM AND COLONIAL EXPANSION, 1648 TO 1789.
PREREQUISITE: ONE YEAR OF COLLEGE HISTORY OR CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 OR 1 UNIT

10665	LECT	9	MTUWTHFS	336	G	H	WILSON

HIST 346 CONSTITUTIONAL HISTORY OF ENGLAND, 1485 TO THE PRESENT.
PREREQUISITE: ONE YEAR OF COLLEGE HISTORY OR POLITICAL SCIENCE.
3 HOURS, OR 1/2 OR 1 UNIT

10673	LECT	11	MTUWTHFS	111	G	H	HILL

HIST 362 HISTORY OF THE UNITED STATES SINCE 1932.
PREREQUISITE: ONE YEAR OF COLLEGE HISTORY, POLITICAL SCIENCE OR ECONOMICS.
3 HOURS, OR 1/2 OR 1 UNIT

10681	LECT	11	MTUWTHFS	221	G	H	KRUEGER

HIST 363 SOCIAL HISTORY OF INDUSTRIAL AMERICA TO 1890.
PREREQUISITE: ONE YEAR OF COLLEGE HISTORY.
3 HOURS, OR 1/2 OR 1 UNIT

10690	LECT	10	MTUWTHFS	221	G	H	JAHER

HIST 367 THE TRANS-MISSISSIPPI WEST.
3 HOURS, OR 1/2 OR 1 UNIT

10702	LECT	9	MTUWTHFS	221	G	H	SPENCE

HIST 382 ALEXANDER AND HIS SUCCESSORS.
3 HOURS, OR 1/2 OR 1 UNIT

10711	LECT	9	MTUWTHFS	145	L	H	MITCHELL

COURSES FOR GRADUATES

HIST 403 PROBLEMS IN EUROPEAN HISTORY TO 1815.
1 UNIT

10729	DISC	3-5	TU TH	336	G	H	QUELLER

HIST 419 SEMINAR IN EUROPEAN HISTORY, 1648-1815.
1 UNIT

10737	DISC	3-5	TU TH	304	G	H	WILSON

HIST 441 SEMINAR IN NEAR AND MIDDLE EASTERN HISTORY.
1 UNIT

10745	DISC		3-5	M W	304	G H	DAWN

HIST 453 SEMINAR IN AMERICAN HISTORY SINCE 1789.
1 UNIT

10753	DISC	A	1-3	TU TH	304	G H	BATES
10761	DISC	B	1-3	M W	304	G H	JAHER

HIST 497 READING COURSE.
PREREQUISITE: MASTERS DEGREE OR EQUIVALENT, CONSENT OF INSTRUCTOR.
1 UNIT

10770	CONF		ARR				STAFF

HIST 499 THESIS RESEARCH.
0 TO 2 UNITS

10788	CONF		ARR				STAFF

HISTORY AND PHILOSOPHY OF EDUCATION

DEPARTMENT OFFICE 369 EDUC

COURSES FOR ADVANCED UNDERGRADUATES

HP ED 201 FOUNDATIONS OF AMERICAN EDUCATION.
PREREQUISITE: (FOR STUDENTS NOT IN ELEMENTARY EDUCATION) SE. ED. 101 OR VOTEC. 101 AND PSYCH. 100. (FOR STUDENTS IN ELEMENTARY EDUCATION) PSYCH. 100 ONLY.
2 HOURS

10796	LECT-DISC	A	8	TUWTHF	113	D K H	STAFF
10809	LECT-DISC	B	9	TUWTHF	113	D K H	STAFF
10817	LECT-DISC	C	10	TUWTHF	113	D K H	STAFF
10825	LECT-DISC	D	11	TUWTHF	113	D K H	STAFF

HP ED 249 INDEPENDENT STUDY.
PREREQUISITE: UPPER CLASSMAN, UPPER 5 PER CENT OF CLASS IN GRADE POINT AVERAGE, CONSENT OF ADVISER AND STAFF MEMBER WHO SUPERVISES THE WORK.
2 HOURS

10833	CONF		ARR				STAFF

HP ED 291 THESIS.
PREREQUISITE: SENIOR STANDING.
2 HOURS

10841	CONF		ARR				STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

HP ED 301 PHILOSOPHY OF EDUCATION.
2 HOURS OR 1/2 UNIT

10850	LECT-DISC		8	TUWTHF	W109	I H	MCMURRAY

HP ED 302 HISTORY OF AMERICAN EDUCATION.
2 HOURS OR 1/2 UNIT

10868	LECT-DISC		10	TUWTHF	205	G H	VIOLAS

HP ED 303 COMPARATIVE EDUCATION.
2 HOURS OR 1/2 UNIT

10876	LECT-DISC		11	TUWTHF	133	ARMORY	SHORISH

HP ED 304 SOCIAL FOUNDATIONS OF EDUCATION.
2 HOURS CR 1/2 UNIT

10884	LECT-DISC	A1	8	TUWTHF	134	ARMORY	LINDENBERG
10892	LECT-DISC	A2	8	TUWTHF	137	ARMORY	WILLIAMS
10905	LECT-DISC	B1	9	TUWTHF	123	D K H	LINDENBERG
10913	LECT-DISC	B2	9	TUWTHF	137	ARMORY	SHORISH
10921	LECT-DISC	C1	10	TUWTHF	W109	T H	SMITH
10930	LECT-DISC	C2	10	TUWTHF	328	D K H	WILLIAMS
10948	LECT-DISC	C3	10	TUWTHF	433	ARMORY	STANLEY
10956	LECT-DISC	D1	11	TUWTHF	W109	T H	SMITH
10964	LECT-DISC	D2	11	TUWTHF	325	D K H	METCALF

HP ED 305 HISTORY OF EDUCATIONAL IDEAS.
2 HOURS CR 1/2 UNIT
*THIS SECTION LIMITED TO STUDENTS IN SPECIAL FOUR-WEEK PROGRAMS. (FIRST FOUR WEEKS ONLY).

10972	LECT-DISC	A1	8	TUWTHF	136	ARMORY	MUKHERJEE
10981	LECT-DISC	A2	8	TUWTHF	130	COM W	KAULFERS
10999	LECT-DISC	B1	9	TUWTHF	328	D K H	MUKHERJEE
11003	LECT-DISC	B2	9	TUWTHF	W109	T H	STEVENS
11011	LECT-DISC	C1	10	TUWTHF	222	D K H	KAULFERS
11020	LECT-DISC	C2	10	TUWTHF	108	D K H	CAMPBELL
11062	LECT-DISC	*C3	10-12	TUWTHF	332	ARMORY	MCMURRAY
11038	LECT-DISC	C4	10	TUWTHF	137	ARMORY	FEINBERG
11046	LECT-DISC	D1	11	TUWTHF	136	ARMORY	FEINBERG
11054	LECT-DISC	D2	11	TUWTHF	205	G H	VIOLAS

COURSES FOR GRADUATES

HP ED 401 MODERN THEORIES OF EDUCATION.
1 UNIT

11071	LECT-DISC		11	TUWTHF	433	ARMORY	STANLEY

HP ED 403 THE HISTORICAL FOUNDATIONS OF AMERICAN EDUCATIONAL THOUGHT.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

11089	LECT-DISC		10	TUWTHF	20	COM W	KARIER

HP ED 410 SEMINAR IN THEORIES OF EDUCATIONAL AND SOCIAL CHANGE.
ONLY OPEN TO CANDIDATES FOR THE ED. D. OR PH. D. IN EDUCATION.
1 UNIT

11097	LECT-DISC	E	2-4	TU TH	382	EDUC	BROUDY AND
11100	LECT-DISC	F	2-4	W F	382	EDUC	MCRAE

HP ED 449 INDEPENDENT STUDY.
PREREQUISITE: APPROVAL OF STUDY OUTLINE BY ADVISER AND THE DEPARTMENT CHAIRMAN PRIOR TO ENROLLMENT.
*MAY BE REPEATED FOR A MAXIMUM OF TWO UNITS.
*1/2 OR 1 UNIT

11118	CONF		ARR	STAFF

HP ED 490 SEMINAR FOR ADVANCED STUDENTS OF EDUCATION.
OPEN ONLY TO PERSONS WHO HAVE BEEN ADMITTED FOR DOCTORAL STUDY IN HISTORY AND PHILOSOPHY OF EDUCATION.
PREREQUISITE: FOR SECTION (C) ONLY, HP. ED. 483 OR CONSENT OF INSTRUCTOR.
1 TO 2 UNITS

11126	CONF	A	ARR	STAFF
11134	CONF	B	ARR	STAFF
11142	CONF	D	ARR	STAFF

HP ED 491 FIELD STUDY AND THESIS SEMINAR.
LIMITED TO STUDENTS WHO HAVE BEEN ADMITTED FOR DOCTORAL STUDY.
1 TO 2 UNITS

11151	CONF		ARR	STAFF

HP ED 499 THESIS RESEARCH.
0 TO 2 1/2 UNITS

11169	CONF		ARR	STAFF

DEPARTMENT OFFICE 260 BEV HALL

NOTE--HOME ECONOMICS COURSES DESIGNED PARTICULARLY FOR NON-MAJOR STUDENTS AND NOT FULFILLING THE REQUIREMENTS FOR A MAJOR IN HOME ECONOMICS ARE HOME ECON. 120, 125, 193, AND 271.

OTHER HOME ECONOMICS COURSES ARE ALSO OPEN TO NON-MAJORS WHO HAVE THE PREREQUISITES LISTED FOR THE COURSE AND THE CONSENT OF THE INSTRUCTOR. STUDENTS ARE REFERRED PARTICULARLY TO H.EC. 105, 132, 133, 160, 171, 182, 183, 184, 202, 210, 260, 270, AND 286.

COURSES FOR UNDERGRADUATES

H EC 182 CLOTHING LABORATORY.
2 HOURS
*SECTION A IS RESERVED FOR STUDENTS WITH FORMAL TRAINING IN CLOTHING CONSTRUCTION IN EITHER HIGH SCHOOL OR 4-H WORK.

11185	LAB	*A	8-12	M W	108	BEV HALL	ZWOLANEK
11177	LAB	B	1-5	TU TH	122	BEV HALL	BANNER

H EC 196 WEAVING.
3 HOURS

11193	LAB		2-5	MTUWTH	174	BEV HALL	AUSTIN

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

H EC 326 PRESENTATIONS: PRINCIPLES AND TECHNIQUES.
PREREQUISITE: SENIOR STANDING, CONSENT OF INSTRUCTOR.
FIELD TRIP, ESTIMATED COST $15.
3 HOURS OR 1/2 UNIT
FIRST FOUR WEEKS.

11206	LECT		1-3	M	328	BEV HALL	DOWNEY
	LAB		1-4	TUWTHF	328	BEV HALL	DOWNEY

H EC 361 DEVELOPMENT AND FUNCTION OF FAMILY HOUSING.
SAME AS AG. M. 361.
PREREQUISITE: H. EC. 160 AND 171 OR CONSENT OF INSTRUCTOR.
3 HOURS OR 3/4 UNIT
SECOND FOUR WEEKS.

11214	LECT-DISC		8-11	M W F	218	AGR ENG	HANSEN
	LAB		8-11	TU TH	209	AGR ENG	HANSEN

H EC 378 PROBLEMS IN HOME MANAGEMENT.
PREREQUISITE: H. EC. 270 OR 262, CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 OR 1 UNIT

11222	CONF		ARR				GOODYEAR

H EC 379 PROBLEMS IN FAMILY AND CONSUMPTION ECONOMICS.
PREREQUISITE: ECON. 102 OR 108 AND A COURSE IN APPLIED STATISTICS, H. EC. 370, H. EC. 313, OR CONSENT OF INSTRUCTOR, SENIOR STANDING.
3 HOURS, OR 1/2 OR 1 UNIT

11231	CONF		ARR				DUNSING

H EC 380 ADVANCED TEXTILES.
PREREQUISITE: H. EC. 183; CHEM. 102.
4 HOURS OR 1 UNIT

11249	LECT		10	TUWTHF	208	BEV HALL	GALBRAITH AND
	LAB		8-10	TUWTHF	201	BEV HALL	WARFIELD

COURSES FOR GRADUATES

H EC 410 PROBLEMS IN FAMILY LIVING.
PREREQUISITE: H. EC. 210.
1 UNIT
FIRST FOUR WEEKS.

11257	DISC		1-3	TUWTHF	208	C D	SPORAKOWSKI

H EC 493 ADVANCED STUDIES IN HOME ECONOMICS.
1/2 OR 1 UNIT
WORK MAY BE TAKEN IN THE FOLLOWING SUBJECTS:
* A--THE CHILD AND THE FAMILY
* B--FAMILY AND CONSUMPTION ECONOMICS
* C--FOODS
* D--NUTRITION
* E--TEXTILES AND CLOTHING

11265	CONF	*A	ARR
11273	CONF	*B	ARR
11281	CONF	*C	ARR
11290	CONF	*D	ARR
11302	CONF	*E	ARR

H EC 499 THESIS RESEARCH.
0 TO 2 UNITS
WORK MAY BE TAKEN IN THE FOLLOWING SUBJECTS:

* A--THE CHILD AND THE FAMILY	MILLS, SPORAKOWSKI AND VAN DEN DAELE
* B--FAMILY AND CONSUMPTION ECONOMICS	DUNSING
* C--FOODS	VAN DUYNE
* D--NUTRITION	SMITH
* E--TEXTILES AND CLOTHING	GALBRAITH

11311	CONF	*A	ARR
11329	CONF	*B	ARR
11337	CONF	*C	ARR
11345	CONF	*D	ARR
11353	CONF	*E	ARR

HORTICULTURE

DEPARTMENT OFFICE 124 M H

COURSES FOR UNDERGRADUATES

HORT 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS
11361 CONF ARR STAFF

COURSES FOR ADVANCED UNDERGRADUATES

HORT 200 SPECIAL PROBLEMS.
PREREQUISITE: MINIMUM GRADE POINT AVERAGE OF 3.5. NOT OPEN TO STUDENTS ON PROBATION, SENIOR STANDING, CONSENT OF INSTRUCTOR AND HEAD OF DEPARTMENT. SPECIFIC APPROVAL OF THE ASSOCIATE DEAN REQUIRED IN ADVANCE OF REGISTRATION FOR A SECOND AND/OR A THIRD SPECIAL PROBLEMS COURSE.
1 TO 5 HOURS
WORK MAY BE TAKEN IN THE FOLLOWING SUBJECTS:

A--POMOLOGY	SIMONS, TITUS, ZYCH
B--VEGETABLE CROPS	ARNOLD, HOPEN, MCCOLLUM, SPLITTSTOESSER, THOMPSON, VANDEMARK
C--ORNAMENTAL HORTICULTURE	BEEVERS, BUTLER, CULBERT, FOSLER GARTNER, HODGES, NELSON, MEYER
D--FRUIT BREEDING	BIRKELAND, DAYTON
E--APICULTURE	JAYCOX

*SECTION &B IS OPEN TO JAMES SCHOLARS AND OTHER STUDENTS HAVING A MINIMUM GRADE POINT AVERAGE OF 4.0 AND MAY BE TAKEN IN CONJUNCTION WITH OTHER COURSES IN THIS DEPARTMENT SUBJECT TO APPROVAL OF INSTRUCTOR.

11370	CONF	A	ARR	STAFF
11388	CONF	*&B	ARR	

COURSES FOR GRADUATES

HORT 492 SPECIAL TOPICS IN HORTICULTURE.
PREREQUISITE: TWENTY HOURS OF UNDERGRADUATE WORK IN HORTICULTURE AND ALLIED SUBJECTS FOR A MAJOR AND TWELVE HOURS FOR A MINOR.
1/2 TO 2 UNITS
11396 CONF ARR STAFF

HORT 499 THESIS RESEARCH.
REQUIRED FOR MAJOR IN HORTICULTURE.
PREREQUISITE: TWENTY HOURS OF UNDERGRADUATE WORK IN HORTICULTURE AND ALLIED SUBJECTS FOR A MAJOR AND TWELVE HOURS FOR A MINOR.
0 TO 2 UNITS
WORK MAY BE TAKEN IN THE FOLLOWING SUBJECTS:

A--ORNAMENTAL HORTICULTURE	BEEVERS, BUTLER, CULBERT, GARTNER, HODGES, MEYER,
B--FRUIT BREEDING	BIRKELAND, DAYTON
C--POMOLOGY	JAYCOX, SIMONS, TITUS, ZYCH
D--VEGETABLE CROPS	ARNOLD, DICKINSON, HOPEN, MCCOLLUM, RHODES, SPLITTSTOESSER, THOMPSON, VANDEMARK

11409 CONF ARR STAFF

INDUSTRIAL ENGINEERING

DEPARTMENT OFFICE 144 M E B

COURSES FOR ADVANCED UNDERGRADUATES

I E 293 SPECIAL PROJECTS.
PREREQUISITE: SENIOR STANDING IN INDUSTRIAL ENGINEERING, CONSENT OF HEAD OF DEPARTMENT.
3 HOURS
11417 CONF ARR

COURSES FOR GRADUATES

I E 458 LABORATORY INVESTIGATIONS IN INDUSTRIAL ENGINEERING.
1/2 TO 1 1/2 UNITS
11425 CONF ARR

ITALIAN

DEPARTMENT OFFICE 224 L H

MAJOR: TWENTY HOURS IN ITALIAN, EXCLUDING ITALIAN 101 AND 102, AND INCLUDING AT LEAST FIVE HOURS FROM THE GROUP FOR ADVANCED UNDERGRADUATES AND GRADUATES. LINGUISTICS 300 AND ITALIAN 291 AND 292 ARE ACCEPTABLE.

MINORS: TWENTY HOURS IN NOT MORE THAN TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: EDUCATION, ENGLISH (EXCLUDING RHET. 101 AND 102), FRENCH, GERMAN, GREEK, HISTORY, LATIN, LIBRARY SCIENCE, MEDIEVAL CIVILIZATION STUDIES, PHILOSOPHY, PORTUGUESE, RUSSIAN, AND SPANISH.

COURSES FOR GRADUATES

ITAL 400 BEGINNING COURSE FOR GRADUATE STUDENTS.
4 HOURS
11433 LECT-DISC 8-10 MTUWTH 304 G H

ITAL 491 SPECIAL TOPICS IN ITALIAN.
1/2 OR 1 UNIT
11441 CONF ARR STAFF

ITAL 499 THESIS RESEARCH.
0 TO 2 1/2 UNITS
11450 CONF ARR KAHANE AND SHOEMAKER

DEPARTMENT OFFICE 120A G H

COURSES FOR ADVANCED UNDERGRADUATES

JOURN 204 TYPOGRAPHY.
PREREQUISITE: REGISTRATION IN THE COLLEGE OF COMMUNICATIONS OR CONSENT OF THE COLLEGE.
3 HOURS

11468	LECT-DISC	C	10-12	MTUWTH	31	G H	HANSON

JOURN 223 PHOTO-JOURNALISM.
COST OF MATERIALS APPROXIMATELY $15 PER STUDENT. CAMERAS ARE PROVIDED BY THE COLLEGE.
PREREQUISITE: REGISTRATION IN THE COLLEGE OF COMMUNICATIONS, OR CONSENT OF INSTRUCTOR.
3 HOURS

11476	LECT	C	10	M W	25	G H	HILDWEIN
	LAB	C	8-12	TU TH	13	G H	HILDWEIN

JOURN 291 SPECIAL PROBLEMS.
PREREQUISITE: CONSENT OF HEAD OF DEPARTMENT.
2 OR 3 HOURS

11484	CONF	ARR		STAFF

COURSES FOR GRADUATES

JOURN 470 COMMUNICATIONS AND POPULAR CULTURE.
SAME AS COMM. 470.
PREREQUISITE: CONSENT OF THE COLLEGE OF COMMUNICATIONS.
1 UNIT

11492	LECT-DISC	E	1-3	TU TH	123	G H	SCHACHT

JOURN 473 HISTORY AND THEORY OF FREEDOM OF THE PRESS.
SAME AS COMM. 473.
PREREQUISITE: CONSENT OF THE COLLEGE OF COMMUNICATIONS.
1 UNIT

11505	LECT-DISC	C	10-12	TU TH	123	G H	JENSEN

JOURN 490 SPECIAL TOPICS IN JOURNALISM.
PREREQUISITE: CONSENT OF HEAD OF DEPARTMENT.
1/2 OR 1 UNIT

11513	CONF	ARR	JENSEN AND STAFF

JOURN 499 THESIS RESEARCH.
PREREQUISITE: GRADUATE STANDING IN JOURNALISM.
1 TO 2 UNITS

11521	CONF	ARR	STAFF

LABOR AND INDUSTRIAL RELATIONS

DEPARTMENT OFFICE 504 E ARMORY, C.

COURSES FOR GRADUATES

L I R 441 LABOR ECONOMICS.
SAME AS ECON. 441.
PREREQUISITE: ECON. 300 AND 301.
1 UNIT

11530	LECT-DISC	N	10-12	TU TH	240	COM W	PARRISH

L I R 448 PROBLEMS OF PERSONNEL MANAGEMENT.
SAME AS B. ADM. 448.
PREREQUISITE: B. ADM. 248 OR EQUIVALENT, CONSENT OF INSTRUCTOR.
1 UNIT

11548	LECT-DISC		8-10	TU TH	94	COM W	ROWLAND

L I R 490 INDIVIDUAL TOPICS.
0 TO 2 UNITS

11556	CONF	ARR	

L I R 499 THESIS RESEARCH.
0 TO 4 UNITS

11564	CONF	ARR	

LANDSCAPE ARCHITECTURE

DEPARTMENT OFFICE 205 M H

COURSES FOR GRADUATES

L A 436 ADVANCED LANDSCAPE DESIGN.
PREREQUISITE: PASSAGE OF SPECIAL DESIGN EXAMINATION, OR CONSENT OF INSTRUCTOR.
1 TO 2 UNITS

11572	LAB		8-12	M W F	105	MUM HOUSE	STAFF

L A 499 THESIS RESEARCH.
0 TO 1 1/2 UNITS

11581	CONF	ARR		STAFF

DEPARTMENT OFFICE 361 L H

MAJOR: TWENTY HOURS, EXCLUDING LATIN 101, 102, AND 103, AND INCLUDING SIX HOURS IN TRANSLATION COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES. IN ADDITION, CLASSICAL CIVILIZATION 301-302 IS STRONGLY RECOMMENDED AS AN ELECTIVE. SEE ALSO THE SPECIALIZED CURRICULUM PREPARATORY TO THE TEACHING OF LATIN.

MINORS: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: ENGLISH LITERATURE, FOREIGN LANGUAGE (GREEK BEING ESPECIALLY RECOMMENDED), HISTORY, LIBRARY SCIENCE, AND PHILOSOPHY.

COURSES FOR UNDERGRADUATES

LAT 103 INTERMEDIATE LATIN.
PREREQUISITE: LAT. 102 OR TWO YEARS OF HIGH SCHOOL LATIN.
4 HOURS
11599 LECT-DISC A 12-2 MTUWTH 137 ADMIN

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

LAT 308 COMPARATIVE GRAMMAR OF GREEK AND LATIN.
SAME AS GRK. AND LING. 308.
PREREQUISITE: LAT. 202 OR EQUIVALENT, AND REGISTRATION OR CREDIT IN GRK. 202.
3 HOURS OR 1/2 UNIT
11601 LECT-DISC A 11 MTUWTHF 137 ADMIN MILLER

LAT 391 READINGS IN LATIN LITERATURE.
PREREQUISITE: THREE YEARS OF COLLEGE LATIN OR EQUIVALENT, CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE 12 HOURS.
*3 HOURS OR 3/4 UNIT
*ENROLLMENT RESTRICTED TO STUDENTS IN NEH LATIN INSTITUTE.
11610 LECT-DISC A 1 MTUWTHFS 409 LIB MARBLESTONE

COURSES FOR GRADUATES

LAT 401 READINGS IN LATIN FOR GRADUATE STUDENTS.
PREREQUISITE: TWO YEARS OF HIGH SCHOOL LATIN, OR THE EQUIVALENT.
4 HOURS
11628 LECT-DISC 11-1 MTU THF 362 L H

LAT 413 CAESAR.
1 UNIT
11636 LECT-DISC A 9-11 M W F 409 LIB BRIGHT

LAT 499 THESIS RESEARCH.
0 TO 2 UNITS
11644 CONF ARR STAFF

LATIN AMERICAN STUDIES PROGRAM

DEPARTMENT OFFICE 253 1208 W. CALIFORNIA

STUDENTS IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES

STUDENTS WHO ELECT LATIN AMERICAN STUDIES AS A MINOR SHALL BE REQUIRED TO:

1. COMPLETE SIX SEMESTERS OR EQUIVALENT OF COLLEGE SPANISH OR PORTUGUESE. IF A STUDENT WISHES TO TAKE BOTH SPANISH AND PORTUGUESE HE MAY TAKE TWO YEARS OF EACH TO SATISFY THIS REQUIREMENT. IN THE CASE OF WELL-QUALIFIED STUDENTS THE LANGUAGE REQUIREMENT MAY BE MODIFIED.

2. COMPLETE AT LEAST TWENTY SEMESTER HOURS FROM THE COURSES LISTED BELOW, INCLUDING SOC. S. 201, CHOSEN FROM AMONG FOUR DEPARTMENTS. COURSES USED FOR MAJOR OR MINOR CREDIT OUTSIDE THE LATIN AMERICAN STUDIES PROGRAM MAY NOT BE INCLUDED WITHIN THIS TWENTY HOURS.

ANTH	332, 333, 349, 350, 352, 361, 380	POL S	342, 343
ART	318	PORT	301, 303, 304
ECON	352	SOC S	201
GEOG	331, 332	SOC	373
HIST	375, 376, 377, 378	SPAN	222, 231, 242, 307 308, 310, 332
MUSIC	336		

GRADUATE MINOR IN LATIN AMERICAN STUDIES

CANDIDATES FOR THE MASTERS DEGREE MUST ELECT A MINIMUM OF TWO UNITS FOR A MINOR IN THIS PROGRAM. DOCTORAL CANDIDATES WHO ELECT LATIN AMERICAN STUDIES AS A SOLE MINOR MUST EARN A MINIMUM OF FOUR UNITS OF CREDIT IN APPROVED COURSES, FOR A SPLIT MINOR, AT LEAST TWO UNITS OF CREDIT MUST BE EARNED. THE COURSES FOR ALL GRADUATE MINORS IN LATIN AMERICAN STUDIES MUST BE TAKEN IN AT LEAST TWO DEPARTMENTS. COURSES IN THE FOLLOWING LIST MAY BE INCLUDED IN THE GRADUATE MINOR:

AG EC	401	MUSIC	336
AGRON	429		
ANTH	322, 333, 349, 350, 352, 361, 380, 490	POL S	342, 343, 441, 442, 493
ART	318, 491	PORT	301, 303, 304, 405, 406, 491
BOT	300	SOC	373, 490
ECON	352, 451, 490	SPAN	307, 308, 310, 431, 432, 433, 434, 435, 436, 437, 438, 439, 451, 452, 491
GEOG	331, 332, 495		
HIST	375, 376, 377, 378, 461		

STUDENTS IN OTHER COLLEGES

STUDENTS IN TECHNICAL AND PROFESSIONAL COLLEGES AND SCHOOLS OF THE UNIVERSITY WHO SEEK KNOWLEDGE OF LATIN AMERICAN AFFAIRS, CULTURE, AND LANGUAGES ARE INVITED TO CONSULT WITH MEMBERS OF THE TEACHING STAFF OF THE LATIN AMERICAN STUDIES PROGRAM, EITHER DIRECTLY OR THROUGH THEIR ADVISERS, IN ORDER TO DEVELOP PROGRAMS SUITED TO THEIR INDIVIDUAL NEEDS. SUCH A PROGRAM MAY OFTEN BE ADOPTED AS A SPECIAL MINOR UNDER EXISTING REGULATIONS IF THE STUDENT SO DESIRES. IT IS RECOGNIZED THAT THE NUMBER OF ELECTIVE HOURS AVAILABLE FOR SUCH SPECIAL AREA STUDIES VARIES AMONG MANY OF THE EIGHT- AND TEN-SEMESTER PROGRAMS IN THE UNIVERSITY, BUT MOST STUDENTS WISHING TO INCREASE THEIR PROFICIENCY IN LATIN AMERICAN AFFAIRS CAN DO SO WITHOUT EXCESSIVE CROWDING OF SCHEDULES. THESE COURSES ARE OF PARTICULAR VALUE TO STUDENTS WHO INTEND TO CARRY ON TECHNICAL OR PROFESSIONAL WORK IN THE LATIN AMERICAN AREA FOR THE GOVERNMENT, PRIVATE BUSINESS, PUBLICATIONS, OR RELIGIOUS ORGANIZATIONS.

DEPARTMENT OFFICE 209 LAW

FIRST TERM--JUNE 8-JULY 15, 1970

SECOND TERM--JULY 16-AUGUST 22, 1970

COURSES FOR ADVANCED LAW STUDENTS

LAW 320 BUSINESS ASSOCIATIONS.
2 1/2 HOURS OR 1 UNIT
FIRST TERM.

11652	LECT-DISC	A	925-1040	MTUWTHF	A LAW	DOOLEY

LAW 323 ADMINISTRATIVE LAW.
2 1/2 HOURS OR 1 UNIT
SECOND TERM.

11661	LECT-DISC	A	925-1040	MTUWTHF	A LAW	COHN

LAW 324 CORPORATIONS.
2 1/2 HOURS OR 1 UNIT
SECOND TERM.

11679	LECT-DISC	A	8-915	MTUWTHF	A LAW	FRAMPTON

LAW 326 EVIDENCE.
2 1/2 HOURS OR 1 UNIT
FIRST TERM.

11687	LECT-DISC	A	8-915	MTUWTHF	A LAW	MARSHALL

LAW 329 DECEDENTS ESTATES AND TRUSTS.
2 1/2 HOURS OR 1 UNIT
SECOND TERM.

11695	LECT-DISC	A	1050-1205	MTUWTHF	A LAW	WAGGONER

LAW 338 INSURANCE.
2 1/2 HOURS OR 1/2 UNIT
SECOND TERM.

11708	LECT-DISC	A	240-355	MTUWTHF	A LAW	MORGAN

LAW 344 CREDITORS RIGHTS.
2 1/2 HOURS OR 1 UNIT
SECOND TERM.

11716	LECT-DISC	A	115-230	MTUWTHF	A LAW	BOWMAN

LAW 358 MODERN SOCIAL LEGISLATION.
2 1/2 HOURS OR 1 UNIT
FIRST TERM.

11724	LECT-DISC	A	240-355	MTUWTHF	E LAW	SEMMEL

LAW 364 LAND USE PLANNING.
2 1/2 HOURS
FIRST TERM.

11732	LECT-DISC	A	115-230	MTUWTHF	A LAW	PLAGER

LAW 369 SOVIET LAW.
2 1/2 HOURS OR 1 UNIT
FIRST TERM.

11741	LECT-DISC	A	8-915	MTUWTHF	E LAW	MAGGS

LAW 371 SEMINAR IN SELECTED LEGAL PROBLEMS.
2 1/2 HOURS OR 1/2 UNIT
SECOND TERM.

11759	LECT-DISC	A	925-1040	MTUWTHF	E LAW	QUICK

LAW 372 PROBLEMS IN ESTATE PLANNING.
2 1/2 OR 1/2 UNIT
FIRST TERM.

11767	LECT-DISC	A	925-1040	MTUWTHF	E LAW	MCCORD

LAW 399 RESEARCH ON SPECIAL TOPICS.
1 TO 4 HOURS, OR 1/2 OR 1 UNIT
EITHER OR BOTH TERMS.

11775	CONF	A	ARR
11783	CONF	B	ARR

COURSES FOR GRADUATES

LAW 499 THESIS RESEARCH.
1/2 TO 3 UNITS
EITHER OR BOTH TERMS.

11791	CONF	A	ARR

LIBERAL ARTS

DEPARTMENT OFFICE 294 L H

COURSES FOR UNDERGRADUATES

L A S 141 PHYSICAL SCIENCE, I.
4 HOURS
THIS COURSE WAS FORMERLY D. G. S. 141.

11804	LECT	10	MTUWTH	141	A H	REVAK
	DISC	9	M W	141	A H	
	LAB	8-10	TU TH	216	N L	

L A S 142 PHYSICAL SCIENCE, II.
PREREQUISITE: L. A. S. 141.
4 HOURS
THIS COURSE WAS FORMERLY D. G. S. 142.

11812	LECT	11	MTUWTH	141	A H	CAMERON
	DISC	9	TU TH	141	A H	
	LAB	8-10	M W	216	N L	

LIBRARY SCIENCE

DEPARTMENT OFFICE 331 LIB

COURSES FOR ADVANCED UNDERGRADUATES

LIB S 201 INTRODUCTION TO REFERENCE SERVICE.
PREREQUISITE: 60 HOURS OF ACADEMIC WORK.
3 HOURS

11821	LECT-DISC	A	8	TUWTHF	128	LIB	RADFORD
		A	8-10	M	128	LIB	
11839	LECT-DISC	B	10	MTUWTH	66	LIB	HEINRITZ
		B	10-12	F	66	LIB	
11847	LECT-DISC	C	12-2	M W F	429	LIB	RADFORD

LIB S 204 DEVELOPMENT AND OPERATION OF LIBRARIES.
PREREQUISITE: 60 HOURS OF ACADEMIC WORK.
2 HOURS
*STUDENTS WHO REGISTER FOR LECTURE-DISCUSSION A MUST ALSO REGISTER FOR LAB B, D, OR E. STUDENTS WHO REGISTER FOR LECTURE-DISCUSSION B MUST ALSO REGISTER FOR LAB A, C, OR F.

11855	LECT-DISC	A	2-4	M W	314	LIB	KRUMMEL
11863	LAB	B	3-5	TU	309	LIB	BESSANT
11871	LAB	D	3-5	TH	309	LIB	BESSANT
11880	LAB	E	3-5	F	309	LIB	BESSANT
11898	LECT-DISC	B	2-4	TU TH	314	LIB	KRUMMEL
11901	LAB	A	3-5	M	309	LIB	BESSANT
11919	LAB	C	3-5	W	309	LIB	BESSANT
11927	LAB	F	3-5	F	309	LIB	BESSANT

LIB S 255 ORGANIZATION OF LIBRARY MATERIALS.
PREREQUISITE: JUNIOR STANDING (60 HOURS OF ACADEMIC WORK).
3 HOURS

11935	LECT-DISC	A	8-10	M W F	309	LIB	MILLER
11943	LECT-DISC	B	11-1	M W F	309	LIB	PENKA
11951	LECT-DISC	C	1-3	M W F	309	LIB	

LIB S 258 SELECTION OF LIBRARY MATERIALS.
PREREQUISITE: 60 HOURS OF ACADEMIC WORK.
2 HOURS

11960	LECT-DISC	A	9	TUWTHF	128	LIB	CROWE
11978	LECT-DISC	B	10-12	TU TH	128	LIB	
11986	LECT-DISC	C	12-2	M W	314	LIB	

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

LIB S 302 LITERATURE OF THE SCIENCES.
PREREQUISITE: SENIOR STANDING, AND LIB. S. 204 AND 258, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1 UNIT

11994	LECT-DISC	10-12	M WTH	328B	LIB	JENKINS

LIB S 303 LIBRARY MATERIALS FOR CHILDREN.
PREREQUISITE: JUNIOR STANDING.
3 HOURS, OR 1/2 OR 1 UNIT

12009	LECT-DISC	10-12	M W F	314	LIB	LADLEY

LIB S 304 LIBRARY MATERIALS FOR YOUNG ADULTS.
PREREQUISITE: JUNIOR STANDING.
3 HOURS, OR 1/2 OR 1 UNIT

12017	LECT-DISC	1-3	M W F	66	LIB	THOMASSEN

LIB S 308 AUDIO-VISUAL SERVICES IN LIBRARIES.
PREREQUISITE: JUNIOR STANDING.
A TWO-DAY FIELD TRIP IS REQUIRED; ESTIMATED EXPENSES $25.00
3 HOURS OR 1 UNIT

12025	LECT-DISC	8-10	M W F	314	LIB	THOMASSEN

LIB S 310 TYPOGRAPHIC DISCIPLINES OF THE BOOK.
SAME AS ENGL. 392 AND JOURN. 310.
PREREQUISITE: CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT

12033	LECT-DISC	9	TU TH	309	LIB	CHAPDU
	LAB	1-3	TU TH	430	LIB	CHAPDU

LIB S 354 AUDIO-VISUAL COMMUNICATION.
SAME AS EL. ED. AND SE. ED. 354.
PREREQUISITE: SENIOR OR GRADUATE STANDING.
3 HOURS. OR 1/2 OR 1 UNIT

12041	LECT-DISC	8-10	TU TH	405	E H	ISAACS
	LAB	8-10	W F	405	E H	ISAACS

COURSES FOR GRADUATES

LIB S 405 LIBRARY ADMINISTRATION.
PREREQUISITE: LIB. S. 204, OR CONSENT OF INSTRUCTOR.
1 UNIT

12050	LECT-DISC	2-4	TU TH	215	G H	MILLER

LIB S 406 LIBRARY SERVICE TO CHILDREN AND YOUNG ADULTS.
PREREQUISITE: LIB.S. 204 OR 405.
A TWO-DAY FIELD TRIP IS REQUIRED; ESTIMATED EXPENSES $25.00.
1 UNIT
FIRST FOUR WEEKS.

12068	LECT-DISC	8-10	TUWTHF	328B	LIB	LOHRER

LIB S 407 CATALOGING AND CLASSIFICATION, I.
PREREQUISITE: LIB. S. 255, OR CONSENT OF INSTRUCTOR.
1 UNIT

12076	LECT-DISC	12-2	M W F	128	LIB	

LIB S 408 CATALOGING AND CLASSIFICATION, II.
PREREQUISITE: LIB. S. 407.
1 UNIT
FIRST FOUR WEEKS.

12084	LECT-DISC	B-10	MTUWTH	429	LIB	HENDERSON

LIB S 409 COMMUNICATION ROLES AND RESPONSIBILITIES OF LIBRARIES.
1 UNIT

12092	LECT-DISC	10-12	TU TH	309	LIB	CROWE

LIB S 411 REFERENCE SERVICE IN THE HUMANITIES AND SOCIAL SCIENCES.
PREREQUISITE: LIB. S. 201, OR CONSENT OF INSTRUCTOR.
1 UNIT

12105	LECT-DISC	10-12	TU TH	314	LIB	LINDERMAN

LIB S 412 SCIENCE REFERENCE SERVICE.
PREREQUISITE: LIB. S. 201, OR CONSENT OF INSTRUCTOR.
1 UNIT

12113	LECT-DISC	1-3	M W	215	G H	HEINRITZ

LIB S 415 LIBRARY MECHANIZATION AND AUTOMATION.
PREREQUISITE: EITHER (1) LIB. S. 201, 204, 255 AND 258, OR (2) CONSENT OF INSTRUCTOR.
1 UNIT

12121	LECT	B	MTUWTH	66	LIB	GRIFFIN
		B-10	F	66	LIB	

LIB S 424 GOVERNMENT PUBLICATIONS.
PREREQUISITE: LIB. S. 411 OR 412, OR CONSENT OF INSTRUCTOR.
1 UNIT

12130	LECT-DISC	10-12	M W	128	LIB	LINDERMAN

LIB S 428 LIBRARY BUILDINGS.
PREREQUISITE: LIB. S. 405 OR CONSENT OF INSTRUCTOR.
A TWO-DAY FIELD TRIP IS REQUIRED; ESTIMATED EXPENSES $25.00.
1 UNIT
FIRST FOUR WEEKS.

12148	LECT-DISC	10-12	TUWTHF	307	G H	WALSH

LIB S 429 INFORMATION STORAGE AND RETRIEVAL.
PREREQUISITE: LIB. S. 405 AND CONSENT OF INSTRUCTOR.
1 UNIT
FIRST FOUR WEEKS.

12156	LECT-DISC	2-4	MTUWTH	128	LIB	LANCASTER

LIB S 431 BOOKS AND LIBRARIES IN THE ANCIENT AND MEDIEVAL WORLD.
1 UNIT

12164	LECT-DISC	8-10	TU TH	314	LIB	BURKE

LIB S 432 BOOKS AND LIBRARIES SINCE THE RENAISSANCE.
SAME AS COMM. 432.
1 UNIT

12172	LECT-DISC	3-5	M W	429	LIB	BURKE

LIB S 433 ADVANCED SUBJECT BIBLIOGRAPHY.
PREREQUISITE: CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE 1 UNIT.
*1/2 UNIT

12181	LECT-DISC D	ARR				GUY

LIB S 434 LIBRARY SYSTEMS.
PREREQUISITE: LIB. S. 405 OR CONSENT OF INSTRUCTOR.
1 UNIT

12199	LECT-DISC	1-3	TU TH	429	LIB	MEISELS

LIB S 442 SEMINAR IN LIBRARY MATERIALS FOR CHILDREN AND YOUNG ADULTS.
PREREQUISITE: LIB. S. 303 OR 304, AND ED. PSY. 211, OR CONSENT OF INSTRUCTOR.
1 UNIT

12201	LECT-DISC	1-3	TU TH	328B	LIB	LADLEY

LIB S 443 CONTEMPORARY BOOK PUBLISHING.
1 UNIT
SECOND FOUR WEEKS.

12210	LECT-DISC		8-10	MTUWTH	429	LIB	SCHOSSBERGER

COURSES FOR ADVANCED GRADUATES

LIB S 450 ADVANCED PROBLEMS IN LIBRARIANSHIP.
PREREQUISITE: A FIFTH-YEAR DEGREE IN LIBRARY SCIENCE, CONSENT OF DIRECTOR.
1/2 TO 2 UNITS
SECTIONS A AND Y, SECOND FOUR WEEKS.

12228	LECT-DISC	A	2-4	MTUWTH	128	LIB	LANCASTER
12236	CONF	J	ARR				STAFF
12244	LECT-DISC	Y	10-12	TUWTHF	307	G H	LUBETSKY

LIB S 499 499 THESIS RESEARCH.
*MS CANDIDATES: 0 TO 2 UNITS. PHD CANDIDATES; 0 TO 4 UNITS.
*0 TO 4 UNITS

12252	CONF		ARR				STAFF

LINGUISTICS

DEPARTMENT OFFICE 309H D H

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

LING 300 INTRODUCTION TO LINGUISTICS.
SAME AS ANTH. 300.
PREREQUISITE: FULFILLMENT OF THE FOREIGN LANGUAGE REQUIREMENT IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES, OR EQUIVALENT.
3 HOURS OR 1/2 UNIT

12261	LECT-DISC		8	MTUWTHFS	152	ADMIN	KENSTOWICZ

LING 301 INTRODUCTION TO GENERAL PHONETICS.
3 HOURS OR 1/2 UNIT

12279	LECT-DISC		11	MTUWTHFS	152	ADMIN	STAFF

LING 302 COMPARATIVE LINGUISTICS.
PREREQUISITE: FULFILLMENT OF FOREIGN LANGUAGE REQUIREMENT IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES OR THE EQUIVALENT.
3 HOURS OR 1/2 UNIT

12287	LECT-DISC		9	MTUWTHF	152	ADMIN	KAHANE

LING 305 INTRODUCTION TO APPLIED LINGUISTICS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
3 HOURS OR 3/4 UNIT

12295	LECT-DISC		1	MTUWTHFS	152	ADMIN	BOUTON

LING 308 COMPARATIVE GRAMMAR OF GREEK AND LATIN.
SAME AS GRK. AND LAT. 308.
PREREQUISITE: LAT. 202 OR EQUIVALENT AND CREDIT OR REGISTRATION IN GRK. 202.
3 HOURS OR 1/2 UNIT

12308	LECT-DISC	A	11	MTUWTHF	137	ADMIN	MILLER

LING 315 INTRODUCTION TO INDO-EUROPEAN LINGUISTICS.
PREREQUISITE: FULFILLMENT OF LANGUAGE REQUIREMENT IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES.
3 HOURS OR 1 UNIT

12316	LECT-DISC		2	MTUWTHFS	152	ADMIN	HOCK

LING 320 INTRODUCTION TO AFRICAN LINGUISTICS.
PREREQUISITE: LING. 200 OR 300, AND CONSENT OF INSTRUCTOR.
3 HOURS OR 1 UNIT

12324	LAB-DISC		3	MTUWTHFS	152	ADMIN	STAHLKE

LING 340 HISTORY OF LINGUISTICS.
PREREQUISITE: LING. 300 OR EQUIVALENT.
3 HOURS OR 1 UNIT
12332 LECT-DISC 10 MTUWTHFS 240 ADMIN STAFF

LING 350 SOCIOLINGUISTICS.
PREREQUISITE: LING. 300 OR CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 OR 1 UNIT
12341 LECT-DISC 10 MTUWTHFS 152 ADMIN

LING 388 LINGUISTICS IN LANGUAGE LEARNING, I.
SAME AS RHET. 388.
PREREQUISITE: TWO YEARS OF FOREIGN LANGUAGE AND CONSENT OF INSTRUCTOR.
4 HOURS OR 3/4 UNIT
12359 LECT-DISC B 9 MTUWTHFS 252 ADMIN ASTON

COURSES FOR GRADUATES

LING 401 SYNTAX.
PREREQUISITE: LING. 300 OR EQUIVALENT.
1 UNIT
12367 LECT-DISC 1 MTUWTHFS 240 ADMIN KISSEBERTH

LING 419 CONTRASTIVE ANALYSIS.
SAME AS RHET. 419.
PREREQUISITE: LING. 300 OR CONSENT OF INSTRUCTOR.
1/2 OR 1 UNIT
12375 LECT-DISC B 9 MTUWTHFS 240 ADMIN STAFF

LING 490 SPECIAL TOPICS IN LINGUISTICS.
1/2 TO 2 UNITS
12383 CONF ARR 312 D H STAFF

LING 499 THESIS RESEARCH.
0 TO 2 UNITS
12391 CONF ARR 312 D H STAFF

MATHEMATICS

DEPARTMENT OFFICE 273 A H

MAJOR IN MATHEMATICS

MAJOR: TWENTY-FOUR HOURS OF MATHEMATICS COURSES, INCLUDING EIGHTEEN HOURS OF MATHEMATICS COURSES WITH NUMBERS GREATER THAN 290 AND TWELVE HOURS IN COURSES CHOSEN FROM MATHEMATICS 314, 317, 318, 327, 328, 332, 333, 342, 347, 348, 349, 353, 354, 361, 364, 366, 387, 392. FOR STUDENTS PREPARING FOR GRADUATE STUDY IN MATHEMATICS, THE FOLLOWING COURSES ARE RECOMMENDED: MATHEMATICS 317, 318, 332, 347, 348. STUDENTS IN SPECIAL CURRICULA AND THOSE WHO DO NOT INTEND TO PURSUE MATHEMATICS PROFESSIONALLY SHOULD CONSULT WITH THEIR ADVISORS.

MINORS: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: ACCOUNTANCY, ASTRONOMY, CHEMISTRY, COMPUTER SCIENCE, ECONOMICS, FINANCE, PHILOSOPHY, PHYSICS, PSYCHOLOGY, STATISTICS (MATHEMATICS 161, 361, 362, 363, 364, 375), SURVEYING, THEORETICAL AND APPLIED MECHANICS. DEPARTMENTAL HONORS: ENTERING STUDENTS WITH SUPERIOR MATHEMATICAL ABILITY SHOULD APPLY TO THE DEPARTMENT OF MATHEMATICS, 273 ALTGELD HALL. FOR INFORMATION REGARDING THE HONORS COURSE, MATHEMATICS 149. INFORMATION REGARDING REQUIREMENTS FOR GRADUATION WITH DISTINCTION IN MATHEMATICS IS AVAILABLE FROM THE ADVISING OFFICE, 269 ALTGELD HALL.

NOTE: AN ENTERING STUDENT WITH AN ADEQUATE PREPARATION IN HIGH SCHOOL MATHEMATICS SHOULD ENROLL IN ANALYTIC GEOMETRY (MATH. 122 OR 123) DURING THE FIRST SEMESTER, AND IN CALCULUS (MATH. 132 OR 133) DURING THE SECOND SEMESTER OF HIS FRESHMAN YEAR. ADMISSION TO ANALYTIC GEOMETRY NORMALLY REQUIRES A PASSING GRADE ON THE MATHEMATICS PLACEMENT TEST. A STUDENT INELIGIBLE FOR ANALYTIC GEOMETRY SHOULD ENROLL IN ALGEBRA (MATH. 111 OR 112) AND TRIGONOMETRY (MATH. 114) DURING HIS FIRST SEMESTER.

STUDENTS IN SPECIAL CURRICULA AND THOSE WHO INTEND TO TERMINATE THEIR STUDY OF MATHEMATICS WITH THE BACHELOR'S DEGREE SHOULD CONSULT THEIR ADVISERS REGARDING OTHER SELECTIONS FROM THE ABOVE LIST OF REQUIRED COURSES THAT WOULD RELATE TO THEIR SPECIAL INTERESTS.

MAJOR IN STATISTICS

MAJOR: TWENTY-FOUR HOURS OF MATHEMATICS COURSES, INCLUDING EIGHTEEN HOURS OF MATHEMATICS COURSES WITH NUMBERS GREATER THAN 290 AND THE FOLLOWING SPECIFIC COURSES: 315 OR 318, 347, 363, 364.

MINORS: TWENTY HOURS IN ONE SUBJECT APPROVED BY THE DEPARTMENT OF MATHEMATICS. OF THESE TWENTY HOURS NOT MORE THAN NINE MAY BE IN STATISTICAL METHODS, AND MATH. 161 MAY BE TAKEN AS THREE OF THESE HOURS. THE COURSES NOT EMPHASIZING STATISTICAL METHODS SHOULD BE CHOSEN SO THAT COURSES ON THE 400 LEVEL CAN BE TAKEN IF THE STUDENT ENTERS THE GRADUATE COLLEGE.

MAJOR IN ACTUARIAL SCIENCE

MAJOR: ONE YEAR OF CALCULUS AND AT LEAST FIVE COURSES CHOSEN FROM THE FOLLOWING: COMPUTER SCIENCE 101, MATHEMATICS 311, 312, 362, 363, 371, 372.

MINORS: TWENTY HOURS CHOSEN FROM THE FOLLOWING: FINANCE 258, 259, 260, 262, 270, 360, 363, 370.

NOTE: STUDENTS ARE URGED TO ELECT ACCY. 201 AND B. ADM. 261 IN THEIR JUNIOR YEAR.

MAJOR IN MATHEMATICS AND COMPUTER SCIENCE

NOTE: THIS MAJOR IS OFFERED BY THE DEPARTMENT OF MATHEMATICS UNDER THE CURRICULUM IN SCIENCES AND LETTERS FOR STUDENTS OF MATHEMATICS WHO HAVE A SPECIAL INTEREST IN THE USE OF COMPUTERS.

MAJOR: MATH. 123, 132, 142 (OR 133, 143), 341, 342, 317, 318, 347, 348 (OR 361).

FIRST MINOR: C. S. 101, 201, 387, AND ONE OF 294, 301, OR 311.

SECOND MINOR: AT LEAST EIGHT HOURS IN A SUBJECT APPROVED BY THE DEPARTMENT.

NOTE: IT IS RECOMMENDED THAT THE ABOVE COURSES BE TAKEN IN THE FOLLOWING SEQUENCE:
FRESHMAN YEAR: FIRST SEMESTER, MATH. 123; SECOND SEMESTER, MATH. 132 (OR MATH. 133).
SOPHOMORE YEAR: FIRST SEMESTER, MATH. 142 (OR MATH. 143); SECOND SEMESTER, C. S. 101, MATH. 341.
JUNIOR YEAR: FIRST SEMESTER, MATH. 317, 342; SECOND SEMESTER, C. S. 201 OR 301, MATH. 318.
SENIOR YEAR: FIRST SEMESTER, MATH. 347, ONE OF C. S. 294, 201, 301, 311; SECOND SEMESTER, C. S. 387, MATH. 348 OR 361.

COURSES FOR UNDERGRADUATES

MATH 111 ALGEBRA.
PREREQUISITE: ENTRANCE ALGEBRA, 1 UNIT, PLANE GEOMETRY, 1 UNIT. STUDENTS HAVING 1-1/2 OR MORE UNITS OF HIGH SCHOOL ALGEBRA MAY NOT TAKE THIS COURSE UNLESS THEY HAVE THE APPROVAL OF THEIR COLLEGE OFFICE.
*CREDIT IS NOT GIVEN FOR BOTH MATH. 111 AND 112.
*5 HOURS

12404	LECT-DISC	A1	8-10	MTUWTHF	145	A	H

MATH 112 COLLEGE ALGEBRA.
PREREQUISITE: ENTRANCE ALGEBRA, 1-1/2 UNITS, PLANE GEOMETRY, 1 UNIT.
*CREDIT IS NOT GIVEN FOR BOTH MATH. 111 AND 112.
*3 HOURS

12412	LECT-DISC	B1	9	MTUWTHFS	147	A	H

MATH 114 PLANE TRIGONOMETRY.
PREREQUISITE: ENTRANCE ALGEBRA, 1-1/2 UNITS, OR REGISTRATION IN MATH. 111, PLANE GEOMETRY, 1 UNIT.
2 HOURS

12421	LECT-DISC	D1	11	TUWTHF	145	A	H

MATH 120 CALCULUS AND ANALYTIC GEOMETRY.
PREREQUISITE: MATH. 111 OR 112, AND MATH. 114, OR ADEQUATE PLACEMENT TEST SCORE.
5 HOURS

12439	LECT-DISC	A1	8-10	MTUWTHF	247	A	H
12447	LECT-DISC	C1	10-12	MTUWTHF	147	A	H

MATH 124 INTRODUCTORY ANALYSIS FOR SOCIAL SCIENTISTS, I.
PREREQUISITE: MATH. 111 OR 112.
3 HOURS

12455	LECT-DISC	B1	9	MTUWTHFS	241	A	H
12463	LECT-DISC	C1	10	MTUWTHFS	247	A	H

MATH 131 CALCULUS AND ANALYTIC GEOMETRY.
PREREQUISITE: MATH. 120.
3 HOURS

12471	LECT-DISC	A1	8	MTUWTHFS	243	A	H
12480	LECT-DISC	B1	9	MTUWTHFS	243	A	H

MATH 133 CALCULUS, I.
PREREQUISITE: MATH. 122 OR 123.
3 HOURS

12498	LECT-DISC	D1	11	MTUWTHFS	243	A	H

MATH 134 INTRODUCTORY ANALYSIS FOR SOCIAL SCIENTISTS, II.
PREREQUISITE: MATH. 124.
4 HOURS

12501	LECT-DISC	B1	9-1030	MTUWTHF	341	A	H

MATH 142 CALCULUS, II.
PREREQUISITE: MATH. 132.
3 HOURS

12519	LECT-DISC	B1	9	MTUWTHFS	245	A	H
12527	LECT-DISC	C1	10	MTUWTHFS	343	A	H

MATH 143 CALCULUS, II.
PREREQUISITE: MATH. 133.
5 HOURS

12535	LECT-DISC	B1	9-11	MTUWTHF	345	A	H

COURSES FOR ADVANCED UNDERGRADUATES

MATH 202 MATHEMATICS FOR ELEMENTARY TEACHERS, I.
PREREQUISITE: JUNIOR STANDING IN ELEMENTARY EDUCATION.
*NO CREDIT FOR L. A. AND S. STUDENTS.
*5 HOURS

12543	LECT-DISC	C1	10-12	MTUWTHF	156	ADMIN	ARMSTRONG

MATH 287 INTRODUCTION TO NUMERICAL ANALYSIS.
SAME AS C. S. 287.
PREREQUISITE: C. S. 101 OR 121, ONE YEAR OF CALCULUS, CONSENT OF INSTRUCTOR.
3 HOURS

12551	LECT-DISC	B1	9	MTUWTHF	144	P B		DAVIS
		B1	3	W	144	P B		DAVIS

MATH 291 THESIS AND READING COURSE.
PREREQUISITE: MATH. 347 WITH GRADE OF B OR BETTER, OR CONSENT OF MATHEMATICS HONORS COMMITTEE.
2 HOURS

12560	CONF		ARR					

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

MATH 300 THE THEORY OF SETS AND THE REAL NUMBER SYSTEM.
PREREQUISITE: MATH. 140 OR 141 OR 145 OR EQUIVALENT, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1 UNIT

12578	LECT-DISC	C1	10	MTUWTHF	347	A H		SHIRLEY
		C1	3	TH	347	A H		

MATH 303 ADVANCED ASPECTS OF EUCLIDEAN GEOMETRY.
PREREQUISITE: MATH. 140 OR 141 OR 145 OR EQUIVALENT, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1 UNIT

12586	LECT-DISC	B1	9	MTUWTHF	343	A H		PETERS
		B1	3	W	343	A H		

MATH 306 SELECTED MATHEMATICAL TOPICS FOR SECONDARY SCHOOL TEACHERS, I.
PREREQUISITE: ONE YEAR OF SECONDARY SCHOOL TEACHING IN MATHEMATICS OR CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 OR 1 UNIT
*SECTION D1 IS A 12-WEEK COURSE FOR TEACHERS ONLY.

12594	LECT-DISC	*D1	11	MTUWTHFS	341	A H		VAUGHAN

MATH 315 LINEAR TRANSFORMATIONS AND MATRICES.
PREREQUISITE: MATH. 140 OR 141 OR 145 OR EQUIVALENT.
3 HOURS OR 1 UNIT
*ONE ADDITIONAL HOUR TO BE ARRANGED.

12607	LECT-DISC	D1	*11	MTUWTHF	314	A H		DENNIN

MATH 317 INTRODUCTION TO HIGHER ALGEBRA, I.
PREREQUISITE: MATH. 140 OR 141 OR 145 OR EQUIVALENT.
3 HOURS OR 1 UNIT
*SECTION B1 IS A 12-WEEK COURSE FOR TEACHERS ONLY.

12623	LECT-DISC	*B1	9	MTUWTHFS	347	A H		
12615	LECT-DISC	C1	10	MTUWTHF	238	ADMIN		
		C1	3	TH	238	ADMIN		

MATH 318 INTRODUCTION TO HIGHER ALGEBRA, II.
PREREQUISITE: MATH. 317.
3 HOURS OR 1 UNIT

12631	LECT-DISC	C1	10	MTUWTHF	443	A H		IRMA REINER
		C1	3	TH	443	A H		

MATH 332 INTRODUCTION TO SET THEORY AND TOPOLOGY.
PREREQUISITE: CREDIT OR REGISTRATION IN MATH. 347.
3 HOURS OR 1 UNIT
*SECTION B1 IS A 12-WEEK COURSE FOR TEACHERS ONLY.

12658	LECT-DISC	*B1	9	MTUWTH	441	A H		ZARING
12640	LECT-DISC	B2	9	MTUWTHF	445	A H		TAYLOR
		B2	3	W	445	A H		TAYLOR

MATH 343 ADVANCED CALCULUS.
PREREQUISITE: MATH. 140 OR 141 OR 145 OR EQUIVALENT.
3 HOURS OR 1 UNIT
*ONE ADDITIONAL HOUR TO BE ARRANGED.

12666	LECT-DISC	B1	*9	MTUWTHF	314	A H		

MATH 345 DIFFERENTIAL EQUATIONS AND ORTHOGONAL FUNCTIONS.
PREREQUISITE: MATH. 140 OR 141 OR 145 OR EQUIVALENT.
*CREDIT IS NOT GIVEN FOR BOTH MATH. 345 AND MATH. 349.
*3 HOURS OR 1 UNIT
ONE ADDITIONAL HOUR TO BE ARRANGED.

12674	LECT-DISC	C1	10	MTUWTHF	314	A H	LONG

MATH 346 COMPLEX VARIABLES AND APPLICATIONS.
PREREQUISITE: MATH. 343 OR CONSENT OF INSTRUCTOR.
*CREDIT IS NOT GIVEN FOR BOTH MATH. 346 AND MATH. 348.
*3 HOURS OR 1 UNIT
ONE ADDITIONAL HOUR TO BE ARRANGED.

12682	LECT-DISC	A1	8	MTUWTHF	314	A H	WETZEL

MATH 347 INTRODUCTION TO HIGHER ANALYSIS--REAL VARIABLES.
PREREQUISITE: MATH. 343 OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1 UNIT

12691	LECT-DISC	D1	11	MTUWTHF	343	A H	PALEY
		D1	3	F	343	A H	

MATH 348 INTRODUCTION TO HIGHER ANALYSIS--COMPLEX VARIABLES.
PREREQUISITE: MATH. 347.
*CREDIT IS NOT GIVEN FOR BOTH MATH. 346 AND 348.
*3 HOURS OR 1 UNIT

12703	LECT-DISC	D1	11	MTUWTHF	345	A H	
		D1	3	F	345	A H	

MATH 350 TOPICS IN PURE MATHEMATICS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
3 HOURS OR 1 UNIT
*SECTION C1 IS A 12-WEEK COURSE FOR TEACHERS ONLY.

12711	LECT-DISC	*D1	11	MTUWTH	347	A H	BRAUNFELD

MATH 353 ELEMENTARY THEORY OF NUMBERS, I.
PREREQUISITE: MATH. 140 OR 141 OR 145 OR EQUIVALENT.
3 HOURS OR 1 UNIT

12720	LECT-DISC	F1	2	MTUWTHF	347	A H	LANDZI
		F1	3	TU	347	A H	

MATH 361 THEORY OF PROBABILITY, I.
PREREQUISITE: MATH. 140 OR 141 OR 145 OR EQUIVALENT.
3 HOURS OR 1 UNIT

12738	LECT-DISC	A1	8	MTUWTHF	238	ADMIN	
		A1	3	TU	238	ADMIN	

MATH 363 ADVANCED STATISTICS, I.
PREREQUISITE: MATH. 140 OR 141 OR 145 OR EQUIVALENT.
3 HOURS OR 1 UNIT

12746	LECT-DISC	A1	8	MTUWTHF	345	A H	IFRAM
		A1	3	TU	345	A H	IFRAM

MATH 388 MATHEMATICAL METHODS IN ENGINEERING AND SCIENCE.
PREREQUISITE: MATH. 343.
3 HOURS OR 1 UNIT

12754	LECT-DISC	C1	10	MTUWTHF	447	A H	HERZOG
		C1	3	TH	447	A H	HERZOG

COURSES FOR GRADUATES

MATH 401 SECOND COURSE IN ABSTRACT ALGEBRA, I.
PREREQUISITE: MATH. 317 AND 318.
1 UNIT

12762	LECT-DISC	C1	10	MTUWTHF	241	A H	STEWART

MATH 402 SECOND COURSE IN ABSTRACT ALGEBRA, II.
PREREQUISITE: MATH. 401.
1 UNIT

12771	LECT-DISC	C1	10	MTUWTHF	243	A H	BECK

MATH 403 THEORY OF RINGS.
PREREQUISITE: MATH. 401, 402 OR EQUIVALENT.
1 UNIT

12789	LECT-DISC	E1	1	MTUWTHF	241	A H	DIBELLO

MATH 404 GROUP THEORY.
PREREQUISITE: MATH. 401 AND 402 OR EQUIVALENT.
1 UNIT

12797	LECT-DISC	C1	10	MTUWTHF	245	A H	FAUDREE

MATH 415 ADVANCED TOPICS IN THE THEORY OF GROUPS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

12800	LECT-DISC	C1	10	MTUWTHF	441	A H	

MATH 416 ADVANCED TOPICS IN ABSTRACT ALGEBRA.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

12818	LECT-DISC	F1	2	MTUWTHF	243	A H	

MATH 435 GENERAL TOPOLOGY, I.
PREREQUISITE: MATH. 332 OR CONSENT OF INSTRUCTOR.
1 UNIT

12826	LECT-DISC	A1	8	MTUWTHF	241	A H	WEINBERG

MATH 440 THEORY OF FUNCTIONS OF A COMPLEX VARIABLE, I.
PREREQUISITE: MATH. 348 OR CONSENT OF INSTRUCTOR.
1 UNIT

12834	LECT-DISC	D1	11	MTUWTHF	241	A H	MILES

MATH 441 REAL ANALYSIS, I.
PREREQUISITE: MATH. 347 OR EQUIVALENT.
1 UNIT

12842	LECT-DISC	E1	1	MTUWTHF	243	A H	BENZINGER

MATH 442 REAL ANALYSIS, II.
PREREQUISITE: MATH. 441.
1 UNIT

12851	LECT-DISC	E1	1	MTUWTHF	245	A H	VISWANATH

MATH 444 PARTIAL DIFFERENTIAL EQUATIONS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

12869	LECT-DISC	B1	9	MTUWTHF	156	ADMIN	SCOTT

MATH 455 MATHEMATICAL METHODS OF PHYSICS, I.
PREREQUISITE: MATH. 348.
1 UNIT

12877	LECT-DISC	A1	8	MTUWTHF	156	ADMIN	LANGEBARTEL

MATH 468 TOPICS IN ANALYSIS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT
*SECTION E1 IS A 12-WEEK COURSE FOR TEACHERS ONLY.

12885	LECT-DISC	*E1	1	MTUWTHF	247	A H	

MATH 490 READING COURSE.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 TO 2 UNITS

12893	CONF	A	ARR	STAFF
12906	CONF	B	ARR	STAFF

MATH 499 THESIS RESEARCH.
PREREQUISITE: CONSENT OF INSTRUCTOR.
0 TO 2 UNITS

12914	CONF		ARR	STAFF

DEPARTMENT OFFICE 144 M E B

COURSES FOR ADVANCED UNDERGRADUATES

M E 234 HEAT TREATMENT OF METALS.
PREREQUISITE: T. A. M. 221, CREDIT OR REGISTRATION IN M. E. 224 AND T. A. M. 223.
3 HOURS

12922	LECT-DISC	E	1	MTUWTH	110	M E B
12931	LAB	O	2-5	TU TH	110	M E B
		O	2-5	TU TH	114	M E B

M E 263 APPLICATION OF ENERGY CONCEPTS TO POWER PROCESSES.
PREREQUISITE: M. E. 206 AND 212.
5 HOURS

12949	LECT-DISC	U	7	MTUWTH	204	M E L
		U	8-10	F	204	M E L
12957	LAB	A	8-10	MTUWTH	204	M E L
		A	8-10	MTUWTH	101	M E B
		A	8-10	MTUWTH	M E LAB	

M E 264 HEAT POWER LABORATORY.
PREREQUISITE: M. E. 212 AND 263.
3 HOURS

12965	LAB	A	8-10	MTUWTHFS	204	M E L
		A	8-10	MTUWTHFS	101	M E B
		A	8-10	MTUWTHFS	M E LAB	

M E 271 DESIGN OF MACHINE ELEMENTS.
PREREQUISITE: M. E. 224.
3 HOURS

12973	LECT-DISC	C	10-12	MTUWTHFS	158	P B

M E 290 SENIOR PROJECT LABORATORY.
PREREQUISITE: SENIOR STANDING IN MECHANICAL ENGINEERING.
2 HOURS

12981	CONF		ARR

M E 293 SPECIAL PROJECTS.
PREREQUISITE: SENIOR STANDING IN MECHANICAL ENGINEERING, CONSENT OF HEAD OF DEPARTMENT.
3 HOURS

12990	CONF	Y	ARR

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

M E 341 ENGINEERING ANALYSIS AND DESIGN.
PREREQUISITE: M. E. 271, SENIOR STANDING, OR CONSENT OF INSTRUCTOR.
3 HOURS, OR 3/4 OR 1 UNIT
THIS COURSE FOR THE SUMMER OF 1970 WILL BE OFFERED ONLY TO SUCCESSFUL APPLICANTS TO AN 8-WEEK SUMMER INSTITUTE SPONSORED BY THE NATIONAL SCIENCE FOUNDATION FOR INSTRUCTORS IN JUNIOR COLLEGES AND TECHNICAL INSTITUTES TEACHING IN TECHNICAL AND PRE-ENGINEERING CURRICULA. COURSE MAY BE REPEATED FOR A TOTAL OF 4 UNITS.

13004	LECT-DISC	A	8-10	MTUWTHF	158	P B

COURSES FOR GRADUATES

M E 408 LABORATORY INVESTIGATIONS IN THERMODYNAMICS.
PREREQUISITE: ONE-YEAR COURSE IN THERMODYNAMICS, ONE HALF-YEAR COURSE IN POWER LABORATORY.
1/2 TO 1 1/2 UNITS

13012	CONF		ARR

M E 409 LABORATORY INVESTIGATIONS IN FLUID FLOW, HEAT TRANSFER, AND COMBUSTION
PREREQUISITE: COURSES IN THERMODYNAMICS AND FLUID MECHANICS.
1/2 TO 1 1/2 UNITS

13021	CONF		ARR

M E 428 INVESTIGATIONS IN THERMAL SYSTEMS.
1/2 TO 1 1/2 UNITS
13039 CONF ARR

M E 429 INVESTIGATIONS IN ENVIRONMENTAL CONTROL.
PREREQUISITE: TWO SEMESTERS OF POWER LABORATORY OR EQUIVALENT.
1/2 TO 1 1/2 UNITS
13047 CONF ARR

M E 438 LABORATORY INVESTIGATIONS IN POWER MACHINERY.
PREREQUISITE: ONE-YEAR COURSE IN POWER LABORATORY.
1/2 TO 1 1/2 UNITS
13055 CONF ARR

M E 448 LABORATORY INVESTIGATIONS IN MACHINE DESIGN.
1/2 TO 1 1/2 UNITS
13063 CONF ARR

M E 458 LABORATORY INVESTIGATIONS IN PRODUCTION.
1/2 TO 1 1/2 UNITS
13071 CONF ARR

M E 499 THESIS RESEARCH.
0 TO 2 UNITS
13080 CONF ARR

MEDIEVAL CIVILIZATION STUDIES PROGRAM

MAJOR: STUDENTS WHO ELECT MEDIEVAL CIVILIZATION AS A MAJOR MUST COMPLETE THE LOWER DIVISION REQUIREMENTS OF THE COLLEGE OF LIBERAL ARTS AND SCIENCES AND FORTY SEMESTER HOURS (WHICH SATISFIES BOTH MAJOR AND MINOR REQUIREMENTS) IN COURSES CHOSEN FROM THE FOLLOWING LIST: ARCH. 214; ART 308 OR 309; CLCIV. 301, 302; ENGL. 311; HIST. 301, 302, 303, 304, 305, 333, 345; ITAL. 311, 312; LAT. 104; PHIL. 304; SPCH. 361. OTHER COURSES MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ADVISER; ADVANCED READING COURSES IN ANY FOREIGN LANGUAGE OFFERED BY THE UNIVERSITY ARE STRONGLY RECOMMENDED.
ADVISER: PROFESSOR BENNETT D. HILL, 304 ARMORY.

METALLURGICAL ENGINEERING

DEPARTMENT OFFICE 201 M M B

COURSES FOR ADVANCED UNDERGRADUATES

MET E 299 THESIS.
PREREQUISITE: SENIOR STANDING, APPROVAL OF HEAD OF DEPARTMENT.
1 TO 3 HOURS
13098 CONF ARR

COURSES FOR GRADUATES

MET E 485 METALLURGICAL ENGINEERING PROBLEMS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/4 TO 2 UNITS
13101 CONF ARR

MET E 486 LABORATORY INVESTIGATIONS IN METALLURGY.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/4 OR 1/2 UNIT
13119 CONF ARR

MET E 499 THESIS RESEARCH.
0 TO 2 UNITS
13127 CONF ARR

MICROBIOLOGY

DEPARTMENT OFFICE 131 BUR HALL

MAJOR: BIOLOGY 110-111 AND TWENTY HOURS OF MICROBIOLOGY COURSES INCLUDING MICROBIOLOGY 200-201. BIOLOGY 210 AND 211 MAY BE SUBSTITUTED FOR MICROBIOLOGY COURSES. IN ADDITION, QUANTITATIVE AND ORGANIC CHEMISTRY, MATHEMATICS THROUGH TRIGONOMENTRY AND ONE YEAR OF PHYSICS ARE REQUIRED. CREDIT MUST ALSO BE PRESENTED IN ONE COURSE TO BE SELECTED FROM CALCULUS, STATISTICS, OR COMPUTER SCIENCE, AND ONE COURSE TO BE SELECTED FROM PHYSICAL CHEMISTRY OR BIOCHEMISTRY.

MINORS: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: ASTRONOMY, BIOLOGY, BOTANY, CHEMISTRY, ENTOMOLOGY, MATHEMATICS, PHYSICS, PHYSIOLOGY, AND ZOOLOGY. NO COURSE MAY APPLY TO BOTH THE MAJOR AND THE MINOR.

COURSES FOR UNDERGRADUATES

MCBIO 100 INTRODUCTORY MICROBIOLOGY.
*CREDIT IS NOT GIVEN FOR BOTH MCBIO. 100 AND MCBIO. 200.
*3 HOURS

13135	LECT	8	MTUWTHF	124	BUR HALL	HELM

MCBIO 101 INTRODUCTORY EXPERIMENTAL MICROBIOLOGY.
PREREQUISITE: CREDIT OR REGISTRATION IN MCBIO. 100.
*CREDIT IS NOT GIVEN FOR BOTH MCBIO. 101 AND MCBIO. 201.
*2 HOURS

13143	LAB	9-12	M W	242	BUR HALL	KRAMER AND
		9-11	F	242	BUR HALL	ASSISTANTS

COURSES FOR ADVANCED UNDERGRADUATES

MCBIO 207 RESEARCH AND SPECIAL PROBLEMS.
PREREQUISITE: FIFTEEN HOURS OF MICROBIOLOGY, CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE 10 HOURS.
*3 TO 5 HOURS.
13151 LAB-DISC ARR BUR HALL STAFF

COURSES FOR GRADUATES

MCBIO 490 INDIVIDUAL PROBLEMS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/2 TO 2 UNITS
13160 LAB ARR BUR HALL STAFF

MCBIO 499 THESIS RESEARCH.
0 TO 2 UNITS
13178 CONF ARR BUR HALL STAFF

MILITARY SCIENCE

DEPARTMENT OFFICE 110 ARMORY

BASIC MILITARY CURRICULUM

ENTERING MALE STUDENTS WHO ARE PHYSICALLY QUALIFIED AND WHO HAVE BEEN SELECTED FOR ENROLLMENT MUST, IN ADDITION TO REQUIRED MILITARY SCIENCE COURSES, REGISTER IN EITHER A NATURAL SCIENCE OR SOCIAL SCIENCE GENERAL EDUCATION SEQUENCE ACCEPTABLE TO THE MILITARY SCIENCE DEPARTMENT AND THE STUDENTS COLLEGE.

COURSES FOR UNDERGRADUATES

MIL S 100 LEADERSHIP LABORATORY (FIRST SEMESTER FRESHMEN ONLY).
PREREQUISITE: APPROVAL OF THE PROFESSOR OF MILITARY SCIENCE.
FIELD TRIPS MAY BE REQUIRED.
0 CREDIT
ATTENDANCE AT TWO CEREMONIES IS REQUIRED.
TIME AND DATE OF CEREMONIES TO BE ANNOUNCED.
13186 LAB ARR

MIL S 101 INTRODUCTION TO MILITARY SCIENCE (UNITED STATES DEFENSE ESTABLISHMENT, I).
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE; ENROLLMENT IN MIL. S. 100.
1 HOUR
13194 LECT-DISC ARR

MIL S 102 MILITARY MAP AND AERIAL PHOTOGRAPH ANALYSIS.
PREREQUISITE: CREDIT OR REGISTRATION IN MIL. S. 101; REGISTRATION IN MIL. S. 125.
1 HOUR
13207 LECT-DISC ARR

MIL S 103 INTRODUCTION TO TACTICS.
PREREQUISITE: CREDIT OR REGISTRATION IN MIL. S. 101; REGISTRATION IN MIL. S. 125.
1 HOUR
13215 LECT-DISC ARR

MIL S 111 UNITED STATES ARMY AND NATIONAL SECURITY (UNITED STATES DEFENSE ESTABLISHMENT, II).
CONCURRENT REGISTRATION IN MIL. S. 100 OR 125.
1 HOUR
13223 LECT-DISC ARR

MIL S 112 AMERICAN MILITARY HISTORY.
PREREQUISITE: REGISTRATION IN MIL. S. 150 OR 175.
2 HOURS
13231 LECT-DISC ARR

MIL S 125 LEADERSHIP LABORATORY (SECOND SEMESTER FRESHMEN ONLY).
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE.
FIELD TRIPS MAY BE REQUIRED.
0 CREDIT
ATTENDANCE AT TWO CEREMONIES IS REQUIRED.
TIME AND DATE OF CEREMONIES TO BE ANNOUNCED.
13240 LAB ARR

MIL S 150 LEADERSHIP LABORATORY (FIRST SEMESTER SOPHOMORES ONLY).
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE.
FIELD TRIPS MAY BE REQUIRED.
0 CREDIT
ATTENDANCE AT TWO CEREMONIES IS REQUIRED.
TIME AND DATE OF CEREMONIES TO BE ANNOUNCED.
13258 LAB ARR

MIL S 175 LEADERSHIP LABORATORY (SECOND SEMESTER SOPHOMORES ONLY).
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE.
FIELD TRIPS MAY BE REQUIRED.
0 CREDIT
ATTENDANCE AT TWO CEREMONIES IS REQUIRED.
TIME AND DATE OF CEREMONIES TO BE ANNOUNCED.
13266 LAB ARR

ADVANCED MILITARY CURRICULUM

SELECTED MALE STUDENTS WHO HAVE COMPLETED THE BASIC MILITARY COURSE OR ITS EQUIVALENT, AND WHO HAVE SATISFACTORILY PASSED PHYSICAL AND SCREENING EXAMINATIONS MAY APPLY FOR ENROLLMENT IN THE ADVANCED MILITARY CURRICULUM. EACH ADVANCED MILITARY CURRICULUM STUDENT IS PAID A SUBSISTENCE ALLOWANCE. HE MUST ATTEND ROTC SUMMER TRAINING CAMP BETWEEN HIS FIRST AND SECOND YEAR IN THE ADVANCED PROGRAM. SUCCESSFUL COMPLETION OF THE CURRICULUM BY SELECTED STUDENTS NORMALLY RESULTS IN A COMMISSION AS A SECOND LIEUTENANT, U. S. ARMY RESERVE. SELECTED STUDENTS MEETING THE REQUIREMENTS MAY BE COMMISSIONED IN THE REGULAR ARMY.

STUDENTS ENROLLED IN THE REQUIRED MILITARY SCIENCE COURSES MUST, IN ADDITION, ENROLL IN THE THIRD AND IN THE FOURTH YEAR IN AN APPROVED COURSE OF ANOTHER DEPARTMENT. SELECTION OF THESE COURSES MUST BE APPROVED BY THE MILITARY SCIENCE DEPARTMENT ADVISOR AND BE ACCEPTABLE TO THE STUDENTS MAJOR DEPARTMENT.

MIL S 200 LEADERSHIP LABORATORY (FIRST SEMESTER JUNIORS ONLY).
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE.
FIELD TRIPS MAY BE REQUIRED.
0 CREDIT
ATTENDANCE AT TWO CEREMONIES IS REQUIRED.
TIME AND DATE OF CEREMONIES TO BE ANNOUNCED.
13274 LAB ARR

MIL S 201 PRINCIPLES OF MILITARY INSTRUCTION.
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE;
REGISTRATION IN MIL. S. 200 OR 225.
1 HOUR
13282 LAB ARR

MIL S 202 INTRODUCTORY MILITARY OPERATIONS. (FUNDAMENTALS AND DYNAMICS OF THE MILITARY TEAM, I).
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE;
REGISTRATION IN MIL. S. 200 OR 225.
3 HOURS
13291 LAB ARR

MIL S 203 PRINCIPLES OF MILITARY LEADERSHIP.
PREREQUISITE: CONCURRENT REGISTRATION IN MIL. S. 200 OR 225.
1 HOUR
13303 LECT-DISC ARR

MIL S 210 MILITARY LAW AND ADMINISTRATIVE MANAGEMENT.
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE;
REGISTRATION IN MIL. S. 250 OR 275.
1 HOUR
13311 LECT-DISC ARR

MIL S 211 PROSEMINAR.
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE; REGISTRATION IN MIL. S. 250 OR 275.
2 HOURS
13320 LECT-DISC ARR

MIL S 212 ADVANCED MILITARY OPERATIONS (FUNDAMENTALS AND DYNAMICS OF THE MILITARY TEAM, II).
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE; REGISTRATION IN MIL. S. 250 OR 275.
3 HOURS
13338 LECT-DISC ARR

MIL S 225 LEADERSHIP LABORATORY (SECOND SEMESTER JUNIORS ONLY).
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE.
FIELD TRIPS MAY BE REQUIRED.
0 CREDIT
ATTENDANCE AT TWO CEREMONIES IS REQUIRED.
TIME AND DATE OF CEREMONIES TO BE ANNOUNCED.
13346 LAB ARR

MIL S 250 LEADERSHIP LABORATORY (FIRST SEMESTER SENIORS ONLY).
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE.
FIELD TRIPS MAY BE REQUIRED.
0 CREDIT
ATTENDANCE AT TWO CEREMONIES IS REQUIRED.
TIME AND DATE OF CEREMONIES TO BE ANNOUNCED.
13354 LAB ARR

MIL S 275 LEADERSHIP LABORATORY (SECOND SEMESTER SENIORS ONLY).
PREREQUISITE: APPROVAL OF PROFESSOR OF MILITARY SCIENCE.
FIELD TRIPS MAY BE REQUIRED.
0 CREDIT
ATTENDANCE AT TWO CEREMONIES IS REQUIRED.
TIME AND DATE OF CEREMONIES TO BE ANNOUNCED.
13362 LAB ARR

MINING ENGINEERING

DEPARTMENT OFFICE 201 M M B

COURSES FOR GRADUATES

MIN E 497 SPECIAL PROBLEMS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
0 TO 1 UNIT
13371 CONF ARR

MIN E 499 THESIS RESEARCH.
0 TO 2 UNITS
13389 CONF ARR

DEPARTMENT OFFICE 100 S M H

COURSES FOR UNDERGRADUATES

MUSIC 100 RUDIMENTS OF THEORY.
2 HOURS

13397	LECT-DISC	A	9	MTUWTHF	103	S M H	ROSENFIELD

MUSIC 103 THEORY OF MUSIC, III.
PREREQUISITE: MUSIC 102.
3 HOURS

13400	LECT-DISC	A	9	MTUWTHF	106	S M H	BLATTER AND CARTER

MUSIC 106 COMPOSITION.
PREREQUISITE: QUALIFYING EXAMINATION IN COMPOSITION, TO BE ADMINISTERED BY THE THEORY-COMPOSITION FACULTY.
2 TO 4 HOURS

13418	CONF	A	ARR		203	T A	FREDRICKSON
13426	CONF	B	ARR		202	T A	JOHNSTON

MUSIC 108 EAR TRAINING, SIGHT SINGING, AND KEYBOARD HARMONY, II.
PREREQUISITE: MUSIC 107.
1 HOUR

13434	LAB-DISC	A	10	TUWTHF	106	S M H	BLATTER

MUSIC 113 APPRECIATION OF MUSIC, SYMPHONIC.
FOR NON-MUSIC STUDENTS.
PREREQUISITE: SOPHOMORE STANDING.
2 HOURS

13442	LECT-DISC	A	9	TUWTHF	25	S M H	WARD

COURSES FOR ADVANCED UNDERGRADUATES

MUSIC 229 THESIS AND ADVANCED UNDERGRADUATE HONORS IN MUSIC.
PREREQUISITE: SENIOR STANDING IN THE HISTORY OF MUSIC OR COMPOSITION-THEORY, OR CONSENT OF INSTRUCTOR.
2 HOURS

13451	CONF	A	ARR		202	H A	NETTL & STAFF

MUSIC 241 MUSIC FOR ELEMENTARY TEACHERS, II.
PREREQUISITE: MUSIC 240. REQUIRED FOR STATE ELEMENTARY SCHOOL CERTIFICATE BUT NO CREDIT GRANTED IN SCHOOL OF MUSIC.
3 HOURS

13469	LECT-DISC	A	1	TUWTHF	116	1203 W NEV	HOLT

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

MUSIC 300 EIGHTEENTH CENTURY COUNTERPOINT.
PREREQUISITE: MUSIC 104 AND/OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT

13477	LECT-DISC	A	10	MTUWTHF	103	S M H	FREDRICKSON

MUSIC 304 CONTEMPORARY COMPOSITIONAL TECHNIQUES.
PREREQUISITE: MUSIC 104, 106, 109, OR CONSENT OF INSTRUCTOR.
2 HOURS OR 1/2 UNIT
TOPIC: ELECTRONIC MUSIC TECHNIQUES.

13485	LAB-DISC	A	ARR		305	S H	BEAUCHAMP

MUSIC 306 COMPOSITION.
PREREQUISITE: MUSIC 104 OR 106 OR CONSENT OF INSTRUCTOR.
2 TO 4 HOURS, OR 1/2 OR 1 UNIT

13493	CONF	A	ARR		203	T A	FREDRICKSON
13506	CONF	B	ARR		202	T A	JOHNSTON

MUSIC 308 ANALYSIS OF MUSICAL FORM.
PREREQUISITE: MUSIC 104 AND 109, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT

13514	LECT-DISC	A	2	MTUWTHF	106	S M H	JOHNSTON

MUSIC 312 MUSIC OF THE SEVENTEENTH CENTURY.
PREREQUISITE: MUSIC 131 OR 214 OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT

13522	LECT-DISC	A	1	TUWTHF	25	S M H	FRUM

MUSIC 314 MUSIC OF THE NINETEENTH CENTURY.
PREREQUISITE: MUSIC 131 OR 214, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT

13531	LECT-DISC	A	11	TUWTHF	25	S M H	MAC DONALD

MUSIC 315 MUSIC OF THE TWENTIETH CENTURY.
PREREQUISITE: MUSIC 131 OR 214, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT

13549	LECT-DISC	A	10	TUWTHF	25	S M H	MACDONALD

MUSIC 316 INTRODUCTION TO MUSIC OF THE WORLD'S CULTURES.
SAME AS ANTH. 316.
FOR STUDENTS OUTSIDE THE SCHOOL OF MUSIC.
PREREQUISITE: ANTH. 103 OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT

13557	LECT-DISC	A	9	TUWTHF	101	H A	NETTL

MUSIC 330 APPLIED MUSIC PEDAGOGY.
PREREQUISITE: JUNIOR STANDING IN MUSIC OR CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE 4 HOURS, OR 1 UNIT
*2 HOURS OR 1/2 UNIT
SECTION A IS FOR PIANO MAJORS.

13565	LECT-DISC	A	9	TUWTHF	3	P A	LYKE

MUSIC 335 THE MUSIC OF AMERICA, II.
PREREQUISITE: SENIOR STANDING IN MUSIC OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT

13573	LECT-DISC	A	1	TUWTHF	103	S M H	HAMM

MUSIC 340 INSTRUMENTAL CLINIC AND BAND PAGEANTRY.
PREREQUISITE: ADVANCED UNDERGRADUATE OR GRADUATE WITH MAJOR WORK OR EXPERIENCE IN BAND OR ORCHESTRA.
2 HOURS OR 1/2 UNIT
*ONE ADDITIONAL HOUR TO BE ARRANGED.

13581	LECT-DISC	A	*9	TUWTHF	228	BAND	KISINGER

MUSIC 341 ADVANCED INSTRUMENTAL ADMINISTRATION.
PREREQUISITE: ADVANCED UNDERGRADUATE OR GRADUATE WITH MAJOR WORK OR EXPERIENCE IN BAND OR ORCHESTRA.
4 HOURS OR 1 UNIT

13590	LECT-DISC	A	1-3	TUWTHF	228	BAND	KISINGER

MUSIC 342 PERCUSSION METHODS.
PREREQUISITE: SENIOR OR GRADUATE STANDING IN MUSIC EDUCATION, AND MUSIC 174 AND 257 OR EQUIVALENT.
3 HOURS OR 1/2 UNIT

13602	LECT-DISC	A	10	TUWTHF	6	S M H	SIWE

MUSIC 344 METHODS OF STRING CLASS TEACHING.
PREREQUISITE: SENIOR OR GRADUATE STANDING IN MUSIC EDUCATION OR CONSENT OF INSTRUCTOR.
2 HOURS OR 1/2 UNIT

13611	LECT-DISC	A	7-9PM	W	5	S M H	MILLER

MUSIC 346 WORKSHOP IN MUSIC EDUCATION.
PREREQUISITE: SENIOR OR GRADUATE STANDING IN MUSIC EDUCATION OR CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE TWO UNITS.
*2 OR 4 HOURS, OR 1/2 OR 1 UNIT
SECTION A TOPIC: MUSIC FOR CLASSROOM TEACHERS.
SECTION B TOPIC: MUSIC IN SPECIAL EDUCATION.
SECTION C TOPIC: YOUTH MUSIC.

13629	LECT-DISC	A	9	TUWTHF	104	1203 W NEV	THOMAS
13637	LECT-DISC	B	9	TUWTHF	8	S A	SMITH
13645	LECT-DISC	C	10	TUWTHF	5	S M H	GARVEY AND VISITING FACULTY

MUSIC 347 TEACHING OF WOODWIND INSTRUMENTS.
PREREQUISITE: SENIOR OR GRADUATE STANDING IN MUSIC EDUCATION OR CONSENT OF INSTRUCTOR.
2 HOURS OR 1/2 UNIT

13653	LECT-DISC	A	9	TUWTHF	11	S M H	MCDOWELL AND WOODWIND FACULTY

MUSIC 348 TEACHING OF BRASS INSTRUMENTS.
PREREQUISITE: SENIOR OR GRADUATE STANDING IN MUSIC EDUCATION OR CONSENT OF INSTRUCTOR.
2 HOURS OR 1/2 UNIT

13661	LECT-DISC	A	1	TUWTHF	14	S M H	SEXTON, GRAY, HOLDEN, PERANTONI

COURSES FOR GRADUATES

MUSIC 402 ANALYSIS IN RELATION TO PERFORMANCE AND INTERPRETATION, I.
PREREQUISITE: MUSIC 104 OR EQUIVALENT, CONSENT OF INSTRUCTOR.
1 UNIT

13670	LECT-DISC	A	1-3	TUWTHF	104	1203 W NEV	KUDLAWICZ

MUSIC 406 COMPOSITION.
1/2 TO 1 1/2 UNITS

13688	CONF	A	ARR		203	T A	FREDRICKSON
13696	CONF	B	ARR		202	T A	JOHNSTON

MUSIC 430 ADVANCED ORCHESTRA CONDUCTING AND LITERATURE.
PREREQUISITE: PREVIOUS CONDUCTING EXPERIENCE.
1 UNIT

13709	LECT-DISC	A	8	TUWTHF	104	1203 W NEV	BERGETHON

MUSIC 433 ADVANCED CHORAL LITERATURE AND CONDUCTING.
PREREQUISITE: GRADUATE STANDING IN MUSIC, MUSIC 432 OR EQUIVALENT, OR CONSENT OF INSTRUCTOR.
1 UNIT

13717	LECT-DISC	A	11-1	TUWTHF	CHOS RHRSL	KRAN	DECKER

MUSIC 442 THE GENERAL MUSIC PROGRAM IN SECONDARY SCHOOLS.
PREREQUISITE: GRADUATE STANDING IN MUSIC EDUCATION.
1/2 OR 1 UNIT
SECOND FOUR WEEKS ONLY.

13725	LECT-DISC	A	9	TUWTHF	116	1203 W NEV	ZIMMERMAN

MUSIC 443 ADMINISTRATION AND SUPERVISION OF MUSIC EDUCATION.
PREREQUISITE: GRADUATE STANDING IN MUSIC OR MUSIC EDUCATION.
1/2 OR 1 UNIT

13733	LECT-DISC	A	11	TUWTHF	104	1203 W NEV	R. THOMAS

NOTE: STUDENTS IN MUSIC CURRICULA RECEIVE THREE OR FOUR HOURS FOR THEIR MAJOR OR PRINCIPAL SUBJECT.

AS A PART OF THE REQUIREMENTS FOR THE BACHELOR OF MUSIC DEGREE, SENIOR STUDENTS MUST PRESENT A PUBLIC RECITAL WHICH MEETS WITH SCHOOL OF MUSIC FACULTY APPROVAL AND CONFORMS WITH DEPARTMENTAL REQUIREMENTS.

MUSIC STUDENTS RECEIVE TWO HOURS CREDIT FOR THEIR MINOR OR SECONDARY SUBJECT.

STUDENTS FROM OTHER COLLEGES RECEIVE TWO HOURS CREDIT FOR WORK IN APPLIED MUSIC IF IN ACCORDANCE WITH THE REGULATIONS OF THEIR COLLEGE.
PASSING OF A PERFORMING EXAMINATION IS REQUIRED AS A PREREQUISITE TO THE INITIAL REGISTRATION IN ANY APPLIED MUSIC COURSE.

APPLIED MUSIC COURSES FOR UNDERGRADUATES

MUSIC 180	PIANO.					
1 OR 2 HOURS						
13741	CONF	A	ARR	201	S M H	SANDERS
13750	CONF	B	ARR	205	S M H	HEILES
13768	CONF	C	ARR	202	S H	BAKER
13776	CONF	D	ARR			
MUSIC 181	VOICE.					
1 OR 2 HOURS						
13784	CONF	A	ARR	211	S M H	FOOTE
13792	CONF	B	ARR	203	S M H	BAILEY
13805	CONF	C	ARR	210	S H	WILSON
13813	CONF	D	ARR	210	S M H	
13821	CONF	E	ARR			
MUSIC 182	ORGAN.					
1 OR 2 HOURS						
13830	CONF	A	ARR	200	S M H	HAMILTON
MUSIC 183	VIOLIN.					
1 OR 2 HOURS						
13848	CONF	A	ARR	202	S A	ROLLAND
13856	CONF	B	ARR	205	S A	FARMER
13864	CONF	C	ARR			
MUSIC 184	VIOLA.					
1 OR 2 HOURS						
13872	CONF	A	ARR			GARVEY
MUSIC 185	CELLO.					
1 OR 2 HOURS						
13881	CONF	A	ARR	105	S A	FARRELL
MUSIC 186	STRING BASS.					
1 OR 2 HOURS						
13899	CONF	A	ARR	9	S M H	KROLICK
MUSIC 187	FLUTE.					
1 OR 2 HOURS						
13901	CONF	A	ARR	10	S M H	
MUSIC 188	CLARINET.					
1 OR 2 HOURS						
13910	CONF	A	ARR	11	S M H	MCDOWELL
MUSIC 189	OBOE.					
1 OR 2 HOURS						
13928	CONF	A	ARR	2	S M H	EDLEFSEN

MUSIC 190 BASSOON.
1 OR 2 HOURS

13936	CONF	A	ARR	105	S H	

MUSIC 191 CORNET AND TRUMPET.
1 OR 2 HOURS

13944	CONF	A	ARR	14	S M H	SEXTON

MUSIC 192 FRENCH HORN.
1 OR 2 HOURS

13952	CONF	A	ARR	4	S M H	HOLDEN

MUSIC 193 TROMBONE.
1 OR 2 HOURS

13961	CONF	A	ARR	8	S M H	GRAY

MUSIC 194 BARITONE.
1 OR 2 HOURS

13979	CONF	A	ARR	206	P A	PERANTONI

MUSIC 195 TUBA.
1 OR 2 HOURS

13987	CONF	A	ARR	206	P A	PERANTONI

MUSIC 196 PERCUSSION.
1 OR 2 HOURS

13995	CONF	A	ARR	6	S M H	SIWE

MUSIC 197 HARP.
1 OR 2 HOURS

14000	CONF	A	ARR	113	S M H	ROSENFIELD

MUSIC 198 ALTO SAXOPHONE.
1 OR 2 HOURS

14018	CONF	A	ARR	12	S M H	COGGINS

APPLIED MUSIC COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

PREREQUISITE: FOR STUDENTS IN THE BACHELOR OF MUSIC CURRICULUM, JUNIOR STANDING IN THE MAJOR APPLIED MUSIC SUBJECT. FOR STUDENTS IN MUSIC EDUCATION, COMPLETION OF THE CURRICULAR REQUIREMENT IN THE MAJOR APPLIED MUSIC SUBJECT. FOR STUDENTS IN OTHER COLLEGES OF THE UNIVERSITY, COMPLETION OF FOUR SEMESTERS IN THE COMPARABLE APPLIED MUSIC COURSE AT THE 100 LEVEL. QUALIFYING EXAM FOR TRANSFER STUDENTS.

MUSIC 380 PIANO.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT

14026	CONF	A	ARR	201	S M H	SANDERS
14034	CONF	B	ARR	205	S M H	HEILES
14042	CONF	C	ARR	202	S H	BAKER

MUSIC 381 VOICE.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT

14051	CONF	A	ARR	211	S M H	FOOTE
14069	CONF	B	ARR	203	S M H	BAILEY
14077	CONF	C	ARR	210	S H	WILSON
14085	CONF	D	ARR	210	S M H	

MUSIC 382 ORGAN.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT

14093	CONF	A	ARR	200	S M H	HAMILTON

MUSIC 383 VIOLIN.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT

14106	CONF	A	ARR	202	S A	ROLLAND
14114	CONF	B	ARR	205	S A	FARMER
14122	CONF	C	ARR			

MUSIC 384 VIOLA.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14131 CONF A ARR GARVEY

MUSIC 385 CELLO.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14149 CONF A ARR 105 S A FARRELL

MUSIC 386 STRING BASS.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14157 CONF A ARR 9 S M H KROLICK

MUSIC 387 FLUTE.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14165 CONF A ARR 10 S M H

MUSIC 388 CLARINET.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14173 CONF A ARR 11 S M H MCDOWELL

MUSIC 389 OBOE.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14181 CONF A ARR 2 S M H EDLEFSEN

MUSIC 390 BASSOON.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14190 CONF A ARR 105 S H

MUSIC 391 CORNET AND TRUMPET.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14202 CONF A ARR 14 S M H SEXTON

MUSIC 392 FRENCH HORN.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14211 CONF A ARR 4 S M H HOLDEN

MUSIC 393 TROMBONE.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14229 CONF A ARR 8 S M H GRAY

MUSIC 394 BARITONE.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14237 CONF A ARR 206 P A PERANTONI

MUSIC 395 TUBA.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14245 CONF A ARR 206 P A PERANTONI

MUSIC 396 PERCUSSION.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14253 CONF A ARR 6 S M H SIWE

MUSIC 397 HARP.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14261 CONF A ARR 113 S M H ROSENFIELD

MUSIC 398 SAXOPHONE.
1 OR 2 HOURS, OR 1/4 OR 1/2 UNIT
14270 CONF A ARR 12 S M H COGGINS

MUSIC 480 PIANO.
PREREQUISITE: BACHELOR OF MUSIC DEGREE, SUCCESSFUL COMPLETION OF A QUALIFYING EXAMINATION GIVEN BY THE GRADUATE COMMITTEE.
1/2 OR 1 UNIT

14288	CONF	A	ARR	201	S M H	SANDERS
14296	CONF	B	ARR	205	S M H	HEILES
14309	CONF	C	ARR	202	S H	BAKER

MUSIC 481 VOICE.
PREREQUISITE: BACHELOR OF MUSIC DEGREE, SUCCESSFUL COMPLETION OF A QUALIFYING EXAMINATION GIVEN BY THE GRADUATE COMMITTEE.
1/2 OR 1 UNIT

14317	CONF	A	ARR	211	S M H	FOOTE
14325	CONF	B	ARR	203	S M H	BAILEY
14333	CONF	C	ARR	210	S H	WILSON
14341	CONF	D	ARR	210	S M H	

MUSIC 482 ORGAN.
PREREQUISITE: BACHELOR OF MUSIC DEGREE, SUCCESSFUL COMPLETION OF A QUALIFYING EXAMINATION GIVEN BY THE GRADUATE COMMITTEE.
1/2 OR 1 UNIT

14350	CONF	A	ARR	200	S M H	HAMILTON

MUSIC 483 STRING INSTRUMENTS.
PREREQUISITE: BACHELOR OF MUSIC DEGREE, SUCCESSFUL COMPLETION OF QUALIFYING EXAMINATION GIVEN BY GRADUATE COMMITTEE.
1/2 OR 1 UNIT

14368	CONF	A	ARR	9	S M H	KROLICK AND STRING FACULTY

MUSIC 484 WIND INSTRUMENTS.
PREREQUISITE: BACHELOR OF MUSIC DEGREE, SUCCESSFUL COMPLETION OF QUALIFYING EXAMINATION GIVEN BY GRADUATE COMMITTEE.
1/2 OR 1 UNIT

14376	CONF	A	ARR	11	S M H	MCDOWELL AND WIND FACULTY

MUSIC 485 PERCUSSION INSTRUMENTS.
PREREQUISITE: BACHELOR OF MUSIC DEGREE, SUCESSFUL COMPLETION OF A QUALIFYING EXAMINATION GIVEN BY THE GRADUATE COMMITTEE.
1/2 OR 1 UNIT

14384	CONF	A	ARR	6	S M H	SIWE

MUSIC 489 DOCTORAL PROJECTS.
OPEN ONLY TO STUDENTS IN THE DOCTOR OF MUSICAL ARTS PROGRAM.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 TO 3 UNITS

14392	CONF	A	ARR	210	1203 W NEV	GOLDTHWAITE AND GRADUATE FACULTY

MUSIC 499 THESIS RESEARCH.
PREREQUISITE: CONSENT OF ADVISOR.
0 TO 2 UNITS

14405	CONF	A	ARR	210	1203 W NEV	NETTL AND GRADUATE FACULTY

SUPPLEMENTARY INSTRUMENTS

NOTE: THESE COURSES ARE OPEN AS ELECTIVES TO STUDENTS FROM OTHER COLLEGES. IN COURSES INVOLVING TWO INSTRUMENTS, TWO DAYS A WEEK ARE SPENT ON EACH INSTRUMENT FOR THE ENTIRE SEMESTER. PREREQUISITE FOR ALL NON-MUSIC STUDENTS: CONSENT OF INSTRUCTOR.

COURSES FOR UNDERGRADUATES

MUSIC 177 CLASS PIANO INSTRUCTION.
PREREQUISITE: CONSENT OF INSTRUCTOR.
2 HOURS
*SECTIONS A-B FIRST SEMESTER
*SECTION C THIRD SEMESTER

14413	LAB-DISC	*A	8	TUWTHF	5	P A	ELLISTON
14421	LAB-DISC	*B	11	TUWTHF	5	P A	ELLISTON
14430	LAB-DISC	*C	1	TUWTHF	5	P A	BERENSON

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

MUSIC 377 CLASS PIANO (ADVANCED).
PREREQUISITE: MUSIC 180 (12 HOURS COMPLETED), 104 AND 109.
OR CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE 4 HOURS OR 1 UNIT.
*2 HOURS OR 1/2 UNIT

14448	LAB-DISC	A	10	TUWTHF	3	P A	LYKE

ENSEMBLE COURSES

NOTE: ALL ENSEMBLE COURSES REQUIRE CONSENT OF INSTRUCTOR.

FOR BAND ENSEMBLE CREDIT SEE BANDS.

COURSES FOR ADVANCED UNDERGRADUATES

MUSIC 250 UNIVERSITY ORCHESTRA.
1/2 HOUR

14456	PRACT	A	730-PM	TU	ORCH RHRSL KRAN		LONDON
		A	4-530	TH	ORCH RHRSL KRAN		

MUSIC 261 UNIVERSITY CHORUS.
OPEN TO STUDENTS, FACULTY AND TOWNSPEOPLE.
1/2 HOUR

14464	PRACT	A	12	TUWTHF	CHOS RHRSL KRAN		DECKER

MUSIC 265 OPERA WORKSHOP AND ENSEMBLE.
1/2 HOUR

14472	PRACT	A	3-6	TU TH	OPERA RHRSL KRAN		ZIRNER, EMOED

MUSIC 266 JAZZ BAND.
PREREQUISITE: CONSENT OF INSTRUCTOR, DETERMINED BY AUDITIONS.
1/2 HOUR

14481	PRACT	A	ARR		ORCH RHRSL KRAN		GARVEY

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

MUSIC 350 ADVANCED ENSEMBLE MUSIC.
PREREQUISITE: REGISTRATION IN APPLIED MUSIC AT THE 300 LEVEL AND CONSENT OF INSTRUCTOR.
1 HOUR OR 1/4 UNIT
*SECTION A IS FOR INSTRUMENTAL, SECTION B FOR OPERATIC, SECTION C IS FOR CONTEMPORARY CHAMBER MUSIC.

14499	PRACT	*A	ARR		9	S M H	KROLICK
14501	PRACT	*B	3-6	W	OPERA RHRSL KRAN		ZIRNER
14510	PRACT	*C	ARR		ORCH RHRSL KRAN		LONDON

MUSIC LITERATURE COURSES

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

MUSIC 320 PROSEMINAR.
PREREQUISITE: SENIOR OR GRADUATE STANDING IN MUSIC OR MUSIC EDUCATION, CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE 8 HOURS OR 2 UNITS.
*2 OR 4 HOURS, OR 1/2 OR 1 UNIT
SECTION A TOPIC: INDIVIDUAL PROJECTS.
SECTION B TOPIC: COMPARATIVE ELEMENTARY MUSIC EDUCATION.
SECTION C TOPIC: INSTRUMENTAL TECHNIQUES.
SECTION D TOPIC: PROSEMINAR IN MUSIC EDUCATION.
SECTION E TOPIC: CHORAL LAB.
NOTE: CREDIT LIMIT FOR SECTIONS B, C, D, AND E IS 2 HOURS OR 1/2 UNIT.

14528	CONF	A	ARR		202	H A	NETTL AND GRADUATE FACULTY
14536	LECT-DISC	B	10	TUWTHF	104	1203 W NEV	BERGETHON AND VISITING FACULTY
14544	LECT-DISC	C	11	TUWTHF	5	S M H	KOHUT
14552	LECT-DISC	D	3-5	W	116	1203 W NEV	GRADUATE FACULTY IN MUSIC EDUCATION
14561	LAB-DISC	E	9	TUWTHF	CHOS	RHRSL KRAN	DECKER

MUSIC 323 OPERA PRODUCTION, I.
PREREQUISITE: MUSIC 265, 381, AND CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT

14579	CONF	A	ARR		OPERA	RHRSL KRAN	ZIRNER

COURSES FOR GRADUATES

MUSIC 424 SEMINAR IN THE WORKS OF A SELECTED COMPOSER.
PREREQUISITE: MUSIC 213-214 AND TWO OF THE FOLLOWING: MUSIC 310, 311, 312, 313, 315, OR EQUIVALENT.
*STUDENTS MAY ACCUMULATE TWO UNITS.
*1/2 UNIT
TOPIC: MOZART.

14587	LECT-DISC	A	2-4	TU TH	101	H A	FRUM

NUCLEAR ENGINEERING

DEPARTMENT OFFICE 214 N E L

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

NUC E 349 FUNDAMENTALS OF RADIATION PROTECTION.
SAME AS C. E. 349.
PREREQUISITE: CREDIT OR REGISTRATION IN NUC. E. 397 OR IN PHYCS. 382.
3 HOURS, OR 3/4 OR 1 UNIT

14595	LECT-DISC		10-12	M W F	203	N E L

NUC E 397 RADIOCHEMISTRY.
SAME AS CHEM. 397.
PREREQUISITE: ONE SEMESTER OF PHYSICAL CHEMISTRY, OR ONE SEMESTER OF ATOMIC PHYSICS, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 3/4 UNIT
*ONE ADDITIONAL HOUR TO BE ARRANGED.

14608	LECT		*9	MTUWTHFS	101	E C

COURSES FOR GRADUATES

NUC E 451 REACTOR LABORATORY.
PREREQUISITE: NUC. E. 347 OR CONSENT OF INSTRUCTOR.
1/2 OR 1 UNIT

14616	DISC		1	F	211	N E L
14624	LAB	A	1-5	M W	NUC REACTOR LAB	
14632	LAB	B	1-5	TU TH	NUC REACTOR LAB	

NUC E 454 NUCLEAR ENGINEERING LABORATORY INVESTIGATIONS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/4 TO 2 UNITS

14641	CONF	ARR		STAFF

NUC E 490 SPECIAL TOPICS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/2 OR 1 UNIT
*SECTION G: NUCLEAR POWER ECONOMICS AND FUEL MANAGEMENT.

14659	LECT-DISC *G	1-3	M W F	203	N E L

NUC E 495 NUCLEAR ENGINEERING PROBLEMS.
PREREQUISITE: AT LEAST THREE UNITS OF GRADUATE WORK AND CONSENT OF INSTRUCTOR.
1/4 TO 2 UNITS

14667	CONF	ARR	STAFF

NUC E 497 SEMINAR IN NUCLEAR SCIENCE AND ENGINEERING.
0 CREDIT

14675	LECT-DISC	11	TH	203	N E L

NUC E 499 THESIS RESEARCH.
0 TO 2 UNITS

14683	CONF	ARR	STAFF

PHILOSOPHY

DEPARTMENT OFFICE 105 G H

MAJOR: TWENTY HOURS FROM ANY COURSES OFFERED BY THE DEPARTMENT, INCLUDING PHIL. 102, 303, 306, 321, AND ONE ADDITIONAL 300 COURSE IN PHILOSOPHY.

MINORS: TWENTY COURSE HOURS FROM THE SUBJECTS RECOGNIZED AS MAJORS BY THE COLLEGE OF LIBERAL ARTS AND SCIENCES, OR FROM ANY APPROVED LAS INTERDEPARTMENTAL CURRICULUM, OR FROM EDUCATION OR LIBRARY SCIENCE OR LINGUISTICS. RHETORIC 101, 102, 107, 108, FIRST-YEAR MODERN FOREIGN LANGUAGE COURSES, AND COURSES IN APPLIED MUSIC ARE EXCLUDED. IF TWO DEPARTMENTS OR CURRICULA ARE CHOSEN, AT LEAST EIGHT HOURS MUST BE TAKEN IN EACH.

FRESHMAN JAMES SCHOLARS ARE AUTOMATICALLY PERMITTED TO TAKE ANY 100 LEVEL PHILOSOPHY COURSE.

COURSES FOR UNDERGRADUATES

PHIL 101 INTRODUCTION TO PHILOSOPHY.
PREREQUISITE: SOPHOMORE STANDING OR CONSENT OF CHAIRMAN OF THE DEPARTMENT.
3 HOURS

14691	LECT-DISC	B	9-11	M W F	111	G H	NICKLES
14704	LECT-DISC	E	1-3	M W F	313	G H	NICKLES

PHIL 102 LOGIC.
PREREQUISITE: SOPHOMORE STANDING OR CONSENT OF CHAIRMAN OF THE DEPARTMENT.
3 HOURS

14712	LECT-DISC	B	9-11	M W F	311	G H	WENGERT
14721	LECT-DISC	F	2-4	M W F	311	G H	WENGERT

PHIL 105 MORAL IDEAS AND PRACTICE.
PREREQUISITE: SOPHOMORE STANDING OR CONSENT OF CHAIRMAN OF THE DEPARTMENT.
*CREDIT IS NOT GIVEN FOR BOTH PHIL. 105 AND 103.
*2 HOURS
14739 LECT-DISC R 1-230 TU TH 313 G H CHANDLER

COURSES FOR ADVANCED UNDERGRADUATES

PHIL 291 READING COURSE.
PREREQUISITE: OPEN TO JUNIORS AND SENIORS WITH A GENERAL GRADE-POINT AVERAGE OF 4.0. ONLY BY PRIOR ARRANGEMENT WITH A REGULAR MEMBER OF THE STAFF AND WITH CONSENT OF THE CHAIRMAN OF THE DEPARTMENT.
*COURSE MAY BE REPEATED TO A TOTAL OF 4 HOURS CREDIT.
*2 TO 4 HOURS
14747 CONF ARR SCHACHT

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

SOPHOMORE JAMES SCHOLARS WHO HAVE HAD NO PHILOSOPHY COURSES ARE PERMITTED TO TAKE PHIL. 303, 306, 307, AND 308. THOSE WHO HAVE HAD A PHILOSOPHY COURSE MAY TAKE ANY 300-LEVEL PHILOSOPHY COURSE.

PHIL 307 HISTORY OF MODERN PHILOSOPHY.
BACON, HOBBES, LOCKE, BERKELEY, HUME.
PHIL. 307 AND 308 TAKEN CONCURRENTLY IN THE SUMMER SESSION ARE THE EQUIVALENT OF PHIL. 306.
2 HOURS OR 1/2 UNIT
14755 LECT-DISC N 1030-12 TU TH 311 G H CUMMINS

PHIL 308 HISTORY OF MODERN PHILOSOPHY.
DESCARTES, SPINOZA, LEIBNITZ, KANT.
PHIL. 307 AND 308 TAKEN CONCURRENTLY IN THE SUMMER SESSION ARE THE EQUIVALENT OF PHIL. 306.
2 HOURS OR 1/2 UNIT
14763 LECT-DISC R 1-230 TU TH 311 G H CUMMINS

PHIL 341 EXISTENTIAL PHILOSOPHY.
PREREQUISITE: ONE COURSE IN PHILOSOPHY (PREFERABLY 311) OR CONSENT OF THE INSTRUCTOR.
3 HOURS, OR 3/4 OR 1 UNIT
14771 LECT-DISC B 9-11 M W F 313 G H SCHACHT

PHIL 362 COMPARATIVE RELIGIONS: THE RELIGIONS OF THE WEST.
PREREQUISITE: ONE COURSE IN PHILOSOPHY.
3 HOURS, OR 3/4 OR 1 UNIT
14780 LECT-DISC L 830-10 TUWTHF 219 G H TIEBOUT

COURSES FOR GRADUATES

PHIL 483 INDIVIDUAL TOPICS.
*NOT MORE THAN 1 UNIT MAY BE COUNTED TOWARD M.A. DEGREE AND NOT MORE THAN 2 TOWARD PH. D.
*1/2 TO 2 UNITS
14798 CONF ARR CHANDLER
TIEBOUT

PHIL 499 THESIS RESEARCH.
0 TO 2 UNITS
14801 CONF ARR CHANDLER
TIEBOUT

PHYSICAL EDUCATION FOR MEN

BASIC INSTRUCTION COURSES

DEPARTMENT OFFICE 201 M O G

MEN ENTERING THE UNIVERSITY WITH LESS THAN SIXTY SEMESTER HOURS OF CREDIT (EXCEPT VETERANS WHO RECEIVE CREDIT BECAUSE OF MILITARY SERVICE, BUT WHO MAY ELECT TO TAKE PHYSICAL EDUCATION) ARE REQUIRED TO OBTAIN CREDIT FOR FOUR SEMESTERS OF PHYSICAL EDUCATION, INCLUDING THE AMOUNT TRANSFERRED. CREDIT MAY BE OBTAINED BY PASSING COURSES LISTED BELOW OR BY PASSING PROFICIENCY EXAMINATIONS WHICH ARE OFFERED AT TIMES SPECIFIED BY DEPARTMENT. PERMITS FOR TAKING PROFICIENCY EXAMINATIONS MUST BE SECURED IN ROOM 201 MEN'S OLD GYMNASIUM NOT LATER THAN 48 HOURS PRECEDING EACH EXAMINATION. STUDENTS ARE NOT PERMITTED TO TAKE PROFICIENCY EXAMINATIONS IN COURSES IN WHICH THEY ARE CURRENTLY REGISTERED. STUDENTS ENROLLED IN PRESCRIBED EXERCISE ARE NOT PERMITTED TO TAKE PROFICIENCY EXAMINATIONS WITHOUT SPECIAL WRITTEN PERMISSION FROM THE COORDINATOR OF PRESCRIBED EXERCISE.

COURSES FOR UNDERGRADUATES

NOTE: MOST PEM BASIC INSTRUCTION COURSES HAVE BEEN ARRANGED IN SEQUENCES TO FACILITATE REGISTRATION OF ADVANCE ENROLLED STUDENTS IN BASIC INSTRUCTION COURSES. THESE SEQUENCES ARE AS FOLLOWS:

SEQUENCE 1 - PEM 118, 120
SEQUENCE 2 - PEM 115, 127, 129, 130
SEQUENCE 3 - PEM 123, 128, 134, 135, 137, 145
SEQUENCE 4 - PEM 133, 136, 142, 143
SEQUENCE 5 - PEM 112, 132, 138

STUDENTS REQUESTING A COURSE IN ONE OF THE ABOVE SEQUENCES WILL BE SCHEDULED IN ONE OF THE OTHER COURSES IN THAT SEQUENCE IF SECTIONS OF THE REQUESTED COURSE ARE CLOSED.

P E M 101 PRESCRIBED EXERCISE.
PREREQUISITE: ASSIGNMENT BY THE HEALTH SERVICE.
STUDENTS MAY ACCUMULATE 3 HOURS.
1 HOUR

14819	LAB	H	3	M W F	106	MOG ANNEX

P E M 120 PERSONAL DEFENSE ACTIVITIES.
1 HOUR

14827	LAB	O	11	MTUWTH	115	MOG ANNEX

P E M 123 WEIGHT TRAINING
1 HOUR

14835	LAB	D	11	MTUWTH	114	MOG ANNEX
14843	LAB	E	12	MTUWTH	114	MOG ANNEX

P E M 132 ARCHERY.
1 HOUR
MEETS WITH P. E. W. 135.

14851	LAB	J	4-6	M W	ARCHERY RANGE	

NOTE: FIRST CLASS MEETING IN 11 FREER GYM.

P E M 135 TENNIS.
1 HOUR
CLASS MEETS TWICE A WEEK FOR ONE HOUR AND 30 MINUTES.

14860	LAB	CC	10-12	M W	H G COURTS	
14878	LAB	QQ	1-3	TU TH	H G COURTS	

NOTE: FIRST CLASS MEETING WILL BE HELD IN NORTH BALCONY HUFF GYM.

P E M 137 BOWLING.
1 HOUR
CLASS MEETS TWICE A WEEK FOR ONE HOUR AND 30 MINUTES.
MEETS WITH P. E. W. 132.

14886	LAB	FF	1-3	M W	60	IU ALLEYS
14894	LAB	SS	3-5	TU TH	60	IU ALLEYS

P E M 138 GOLF.
1 HOUR
STUDENT IS RESPONSIBLE FOR GETTING TRANSPORTATION TO AND FROM THE GOLF RANGE ON RT. 45 NORTH. MAY PROVIDE OWN CAR OR RIDE WITH CLASSMATE.
CLASS MEETS TWICE A WEEK FOR ONE HOUR AND 30 MINUTES.

14907	LAB	LL	8-10	TU TH	ARR

NOTE: FIRST CLASS MEETING WILL BE HELD IN WEST BALCONY, HUFF GYM.

P E M 139 GOLF, II.
SAME AS P. E. M. 139.
PREREQUISITE: P. E. M. 138 OR P. E. M. 131, AND CONSENT OF INSTRUCTOR.
1 HOUR
NOTE: FIRST CLASS WILL MEET IN 11 FREER GYM.

14915	LAB	CC	8-10	M W	PAR3 RT 45 SOUTH

P E M 140 CANOEING AND SMALL CRAFT OPERATION.
PREREQUISITE: ABILITY TO JUMP OR DIVE INTO DEEP WATER WHILE CLOTHED AND MAINTAIN A SURVIVAL POSITION FOR TEN MINUTES.
1 HOUR
REGISTRATION IS LIMITED TO STUDENTS WITH FREE PERIOD PRECEDING THE COURSE HOUR.
CLASS MEETS TWICE A WEEK FOR ONE HOUR AND 30 MINUTES.

14923	LAB	HH	3-5	M W	CRYSTAL LAKE
14931	LAB	SS	3-5	TU TH	CRYSTAL LAKE

NOTE: FIRST CLASS MEETING WILL BE HELD IN 202 MEN'S OLD GYM.

P E M 142 BALLROOM DANCE.
1 HOUR
MEETS WITH P. E. W. 142.

14940	LAB	XX	7-9PM	M W	310	FREER GYM
14958	LAB	YY	7-9PM	TU TH	310	FREER GYM

PROFESSIONAL COURSES FOR MAJORS IN PHYSICAL EDUCATION FOR MEN

DEPARTMENT OFFICE 119 H G

COURSES FOR ADVANCED UNDERGRADUATES

P E M 208 THEORY OF PRESCRIBING EXERCISE.
PREREQUISITE: PHYSL. 103 AND 234.
3 HOURS

14966	LAB-DISC	O	11	MTUWTH	130	FREER GYM	JACKSON

P E M 213 ADVANCED FOOTBALL.
PREREQUISITE: P. E. M. 152.
1 HOUR
FIRST FOUR WEEKS OF SUMMER SESSION.

14974	LAB-DISC	7	MTUW	209	H G

P E M 217 THEORY OF COACHING.
PREREQUISITE: P. E. M. 213 AND 214, OR CONSENT OF INSTRUCTOR.
2 HOURS

14982	LECT-DISC	10	MTUW	209	H G

P E M 235 SQUARE AND BALLROOM DANCE.
2 HOURS
MEETS WITH P. E. W. 235.

14991	LAB-DISC	4-6	MTUWTH	311	FREER GYM

P E M 250 SPECIAL PROBLEMS.
PREREQUISITE: JUNIOR OR SENIOR STANDING; MINIMUM GRADE POINT AVERAGE OF 3.5; CONSENT OF FACULTY ADVISOR AND INSTRUCTOR. APPROVAL OF DEPARTMENT HEAD.
*MAY BE REPEATED FOR A TOTAL OF 4 OR 6 HOURS OF CREDIT.
*2 OR 3 HOURS

15005	LAB-DISC	ARR

P E M 271 ADMINISTRATION OF HIGH SCHOOL SPORT PROGRAMS.
3 HOURS

15013	LECT-DISC	9	MTUWTH	134	ARMORY

PHYSICAL EDUCATION

DEPARTMENT OFFICE 121 HUFF GYM

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

P E 302 PROBLEMS OF FACILITIES PLANNING, CONSTRUCTION, AND UTILIZATION.
PREREQUISITE: P. E. M. 204 OR P. E. W. 204, OR EQUIVALENT, OR CONSENT OF INSTRUCTOR.
2 HOURS OR 1/2 UNIT
THIS COURSE MEETS THE FIRST FOUR WEEKS, JUNE 23 - JULY 16.

15021	LECT-DISC	10	MTUWTH	134	ARMORY	KELLER

P E 303 INTERNATIONAL PHYSICAL EDUCATION AND SPORT.
PREREQUISITE: P. E. W. OR P. E. M. 209, OR CONSENT OF INSTRUCTOR.
2 HOURS OR 1/2 UNIT
THIS COURSE MEETS THE SECOND FOUR WEEKS, JULY 20 - AUGUST 13.

15030	LECT-DISC	10	MTUWTH	134	ARMORY	TREKELL

COURSES FOR GRADUATES

P E 401 ADMINISTRATION OF PHYSICAL EDUCATION AND SPORT.
PREREQUISITE: P. E. M. OR P. E. W. 204 OR EQUIVALENT.
1 UNIT

15048	LECT-DISC	8-10	M W	207A	H G	CHESKA & RAZOR

P E 402 HISTORY OF PHYSICAL EDUCATION AND SPORT.
PREREQUISITE: P. E. M. OR P. E. W. 209 OR EQUIVALENT.
1 UNIT

15056	LECT-DISC	8-10	TU TH	255	ARMORY	TREKELL

P E 406 PHILOSOPHY OF PHYSICAL EDUCATION AND SPORT.
PREREQUISITE: PHIL. 101 AND HP. ED. 305.
1 UNIT

15064	LECT-DISC	1-3	M W	133	ARMORY	KEATING

P E 408 PRINCIPLES OF KINESIOTHERAPY.
PREREQUISITE: ANATOMY, PHYSIOLOGY, KINESIOLOGY, AND PHYSIOLOGY OF EXERCISE, OR CONSENT OF INSTRUCTOR.
1 UNIT
*SIX ADDITIONAL HOURS IN EXERCISE THERAPY CLINIC SELECTED FROM THE PERIODS 3-6 M, W, OR F.

15072	LECT-DISC	*11	MTUWTH	202	M O G	SHELTON

P E 451 SCIENTIFIC FOUNDATIONS OF PHYSICAL FITNESS.
PREREQUISITE: UNDERGRADUATE ANATOMY AND PHYSIOLOGY, TESTS AND MEASUREMENTS.
1 UNIT

15081	LECT-DISC	8	MTUWTH	209	H G	MASSEY
	LAB	3-5	M W	ARR		

P E 453 ANTHROPOMETRICAL AND BODY MECHANICS RESEARCH TECHNIQUES.
PREREQUISITE: P. E. 495 AND 451, COLLEGE ALGEBRA AND TRIGONOMETRY.
1 UNIT

15099	LECT-DISC	9	MTUWTH	209	H G	MASSEY

P E 490 SEMINAR.
0 CREDIT
*SECTION U1 FOR STUDENTS INTERESTED PRIMARILY IN RESEARCH RELATED TO NATURAL SCIENCES.
*SECTION U2 FOR STUDENTS CONCERNED WITH RESEARCH IN HUMANITIES AND SELECTED SOCIAL SCIENCES.
*SECTION U3 FOR STUDENTS INTERESTED PRIMARILY IN RESEARCH RELATED TO SPORT PSYCHOLOGY AND MOTOR LEARNING.

15101	LECT-DISC	*U1	3-5	TU	209	H G	MASSEY
15110	LECT-DISC	*U2	3-5	TU	133	ARMORY	RAZOR
15128	LECT-DISC	*U3	3-5	TU	300	H G	HUBBARD

P E 493 SPECIAL PROJECTS.
1/2 OR 1 UNIT
*SECTION E1: SPECIAL PROJECTS--CREDIT 1/2 OR 1 UNIT.
*SECTION E2: CURRICULUM DEVELOPMENT AND TRENDS PRACTICUM--CREDIT 1 UNIT.
*SECTION E3: THE NATURE OF COMPETITION--CREDIT 1 UNIT.
*SECTION E4: ATHLETIC TRAINING AND CONDITIONING FOR WOMEN PRACTICUM--CREDIT 1/2 UNIT. MEETS FIRST FOUR WEEKS.

15136	CONF	*E1	ARR				STAFF
15144	LECT-DISC	*E2	1-3	TU TH	133	ARMORY	WRIGHT
15152	LECT-DISC	*E3	3-5	M W	133	ARMORY	KEATING
15161	LECT-DISC	*E4	3	MTUWTH	134	ARMORY	JACKSON

P E 495 TECHNIQUES OF RESEARCH IN HEALTH, PHYSICAL EDUCATION, AND RECREATION.
1 UNIT

15179	LECT-DISC		10	MTUWTH	300	H G	HUBBARD
	LAB		7-9PM	M W	302	H G	

P E 499 THESIS RESEARCH.
0 TO 2 UNITS

15187	CONF	C	ARR	CURETON
15195	CONF	F	ARR	FRANKS
15208	CONF	H1	ARR	HUBBARD
15216	CONF	H2	ARR	HUELSTER
15224	CONF	M	ARR	MASSEY
15232	CONF	P	ARR	PCHNDORF
15241	CONF	R	ARR	RAZOR
15259	CONF	T	ARR	TREKELL
15267	CONF	Z	ARR	ZEIGLER
15275	CONF		ARR	STAFF

PHYSICAL EDUCATION FOR WOMEN

DEPARTMENT OFFICE 117 FREER GYM

BASIC INSTRUCTION COURSES

COURSES FOR UNDERGRADUATES

FRESHMEN AND SOPHOMORES: OF THE FOUR SEMESTERS REQUIRED IN PHYSICAL EDUCATION, THE DEPARTMENT RECOMMENDS ONE SEMESTER OF BASIC MOVEMENT (PEW 100) AND RECOMMENDS ONE SEMESTER OF SWIMMING (PEW 110 OR 111). ANY COURSE NOT PREVIOUSLY TAKEN MAY BE TAKEN IN THE TWO REMAINING SEMESTERS.

NOTE: MOST PEW BASIC INSTRUCTION COURSES HAVE BEEN ARRANGED IN SEQUENCES IN ORDER TO BETTER INSURE THE ADVANCE ENROLLEES A COURSE OF THEIR CHOICE. THESE SEQUENCES ARE AS FOLLOWS:

SEQUENCE 1 - PEW 107, 111, 122, 124, 136
SEQUENCE 2 - PEW 104, 110, 121, 123, 132, 135
SEQUENCE 3 - PEW 120, 130, 133, 138, 142, 145

STUDENTS REQUESTING A COURSE IN ONE OF THE ABOVE SEQUENCES WILL BE SCHEDULED IN ONE OF THE OTHER COURSES IN THAT SEQUENCE IF SECTIONS OF THE REQUESTED COURSE ARE CLOSED.

P E W 102 MODIFIED ACTIVITIES.
PREREQUISITE: RECOMMENDATION FROM DEPARTMENT OR HEALTH SERVICE.
1 HOUR
SECTION X EMPHASIZES FIGURE ANALYSIS.

15283	LAB	X	6PM	MTUWTH	311	FREER GYM	RAZOR

P E W 104 MODERN DANCE.
1 HOUR

15291	LAB	J	5	MTUWTH	310	FREER GYM	MEAD

P E W 110 ELEMENTARY SWIMMING.
1 HOUR

15304	LAB	E	1	MTUWTH	116	E B POOL	HARRIS

P E W 111 SUB-INTERMEDIATE SWIMMING.
1 HOUR

15312	LAB	F	2	MTUWTH	116	E B POOL	HARRIS
15321	LAB	G	3	MTUWTH	116	E B POOL	HARRIS

P E W 112 INTERMEDIATE SWIMMING.
1 HOUR

15339	LAB	F	2	MTUWTH	116	E B POOL	HARRIS
15347	LAB	G	3	MTUWTH	116	E B POOL	HARRIS

P E W 130 BADMINTON.
1 HOUR

15355	LAB	E	1	MTUWTH	310	FREER GYM	SOUDER

P E W 131 GOLF.
1 HOUR

15363	LAB	L	8-10	TU TH	11	FREER GYM	KAHRS
15371	LAB	N	10-12	TU TH	11	FREER GYM	KAHRS

P E W 132 BOWLING.
1 HOUR
ALLEY SERVICE CHARGE, $7.50.

15380	LAB	G	1-3	M W	60	I U ALLEYS	STAFF
15398	LAB	T	3-5	TU TH	60	I U ALLEYS	STAFF

P E W 133 FENCING.
1 HOUR

15401	LAB	Y	7PM	MTUWTH	11	FREER GYM	BUNKER

P E W 135 ARCHERY.
1 HOUR

15419	LAB	H	4-6	M W	11	FREER GYM	RAZOR

P E W 136 TENNIS.
1 HOUR

15427	LAB	A	8	MTUWTH	310	FREER GYM	PARKER
15435	LAB	B	9	MTUWTH	310	FREER GYM	PARKER
15443	LAB	C	10	MTUWTH	310	FREER GYM	PARKER
15451	LAB	H	4	MTUWTH	310	FREER GYM	BUNKER

P E W 139 GOLF, II.
SAME AS P. E. M. 139.
PREREQUISITE: P. E. W. 131 OR P. E. M. 138, AND CONSENT OF INSTRUCTOR.
1 HOUR

15460	LAB	CC	8-10	M W	PAR3 RT 45 SOUTH		KAHRS

P E W 140 ADVANCED TENNIS.
PREREQUISITE: P. E. W. 136 OR CONSENT OF INSTRUCTOR.
1 HOUR

15478	LAB	X	6PM	MTUWTH	310	FREER GYM	BUNKER

P E W 142 BALLROOM DANCE.
1 HOUR

15486	LAB	Y	7-9PM	M W	310	FREER GYM	MEAD
15494	LAB	Y1	7-9PM	TU TH	310	FREER GYM	MEAD

PROFESSIONAL COURSES FOR MAJORS IN PHYSICAL EDUCATION FOR WOMEN

DEPARTMENT OFFICE 117 FREER GYM

COURSES FOR ADVANCED UNDERGRADUATES

P E W 208 THEORY OF PRESCRIBING EXERCISE.
PREREQUISITE: P. E. W. 206. CONCURRENT REGISTRATION IN P. E. W. 222.
3 HOURS
*ADDITIONAL HOURS IN CLINICAL WORK, 3-6 M,W, OR F.

15507	LECT-DISC	D	#11	MTUWTH	130	FREER GYM	JACKSON

P E W 216 SUPERVISED EXPERIENCE AND TEACHING, I.
PREREQUISITE: JUNIOR STANDING; P. E. W. 166; COMPLETION OF ONE ELECTED INDIVIDUAL SPORT.
0 CREDIT

15515	LAB	G	3	M W	130	FREER GYM	RAZOR

P E W 235 SQUARE AND BALLROOM DANCE.
2 HOURS
MEETS WITH P. E. M. 235.

15523	LAB-DISC	H	4-6	MTUWTH	311	FREER GYM	SCHMIDT

P E W 250 SPECIAL PROBLEMS.
PREREQUISITE: JUNIOR OR SENIOR STANDING; GRADE-POINT AVERAGE OF 3.5; CONSENT OF FACULTY ADVISER, INSTRUCTOR AND HEAD OF DEPARTMENT.
*MAY BE REPEATED FOR A TOTAL OF 4 OR 6 HOURS CREDIT.
*2 OR 3 HOURS

15531	LECT-DISC	T	3	TU	130	FREER GYM	SOUDER

DEPARTMENT OFFICE 211 P B

ENGINEERING PHYSICS CURRICULUM--SEE UNDERGRADUATE STUDY CATALOG.

L.A.S.CURRICULUM IN PHYSICS--SEE UNDERGRADUATE STUDY CATALOG.

L.A.S. GENERAL CURRICULUM MAJOR: TWENTY HOURS IN PHYSICS, INCLUDING PHYSICS 321, 341, AND 342, AND EXCLUDING COURSES WITH NUMBERS LOWER THAN 270.

L.A.S. GENERAL CURRICULUM MINORS: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, WITH NOT LESS THAN EIGHT HOURS IN EACH IF TWO ARE CHOSEN--ASTRONOMY, CHEMISTRY, EDUCATION, GEOLOGY, MATHEMATICS, ZOOLOGY OR ANY ONE BRANCH OF ENGINEERING.

PHYSICS 101 AND 102 ARE RECOMMENDED TO PREMEDICAL, PREDENTAL, ARCHITECTURE, AND OTHER STUDENTS NOT SPECIALIZING IN PHYSICS, MATHEMATICS, CHEMISTRY OR ENGINEERING.

THE CALCULUS PREREQUISITE FOR CERTAIN COURSES MAY BE SATISFIED EITHER BY MATH. 132 AND 142, OR MATH. 133 AND 143.

COURSES FOR UNDERGRADUATES

PHYCS 106 GENERAL PHYSICS (MECHANICS).
FOR STUDENTS IN ENGINEERING, MATHEMATICS, PHYSICS, AND CHEMISTRY.
PREREQUISITE: MATH. 122, 123; CREDIT OR REGISTRATION IN MATH. 132 OR 133.
4 HOURS

15540	LECT		10	MTUWTH	141	P B
15558	QUIZ	A	1-3	TU TH	147	P B
	LAB	A	1-3	M W	232	P B
15566	QUIZ	B	3-5	TU TH	147	P B
	LAB	B	3-5	M W	232	P B

PHYCS 107 GENERAL PHYSCIS (HEAT, ELECTRICITY, AND MAGNETISM).
FOR STUDENTS IN ENGINEERING, MATHEMATICS, PHYSICS, AND CHEMISTRY.
PREREQUISITE: PHYCS. 106, CREDIT OR REGISTRATION IN MATH. 142 OR 143.
4 HOURS

15574	LECT		11	MTUWTH	151	P B
	LAB		2-4	TU TH	234	P B
	QUIZ		2-4	M W	147	P B

PHYCS 108 GENERAL PHYSICS (WAVE MOTION, SOUND, LIGHT AND MODERN PHYSICS).
FOR STUDENTS IN ENGINEERING, MATHEMATICS, PHYSICS, AND CHEMISTRY.
PREREQUISITE: PHYCS. 107, CREDIT OR REGISTRATION IN MATH. 142 OR 143.
4 HOURS

15582	LECT		9	TUWTHF	151	P B
	QUIZ		1-3	TU TH	137	P B
	LAB		1-3	W F	236	P B

COURSES FOR GRADUATES

PHYCS 497 INDIVIDUAL STUDY.
1/2 OR 1 UNIT

15591	CONF		ARR				STAFF

PHYCS 498 SEMINAR.
1/2 OR 1 UNIT
*SECTION X: ELECTRONIC CIRCUITS.

15620	LECT	*X	1	M W	147	P B	PEACOCK
15603	LAB	A	2-5	M W	434	P B	
15611	LAB	B	2-5	TU TH	434	P B	

PHYCS 499 THESIS RESEARCH.
0 TO 2 UNITS

15638	CONF	ARR	STAFF

PHYSIOLOGY

DEPARTMENT OFFICE 524 BUR HALL

MAJOR: THE MAJOR CONSISTS OF TWENTY HOURS IN ANIMAL PHYSIOLOGY OR CLOSELY RELATED SUBJECTS LISTED IN THE LAST TWO SENTENCES BELOW, NOT INCLUDING ELEMENTARY COURSES, AND INCLUDING PHYSL. 301 AND PHYSL. 302. THE STUDENT'S PROGRAM MUST INCLUDE A YEAR OF GENERAL BIOLOGY, INCLUDING BOTH ANIMAL AND PLANT CALCULUS, A SEMESTER OF GENETICS, MATHEMATICS THROUGH ELEMENTARY CALCULUS, TWO SEMESTERS OF PHYSICS, AND FOUR SEMESTERS OF CHEMISTRY INCLUDING GENERAL, INORGANIC, ORGANIC AND QUANTITATIVE CHEMISTRY. MICROBIOLOGY, EMBRYOLOGY, HISTOLOGY, PHYSICAL CHEMISTRY AND BIOCHEMISTRY ARE RECOMMENDED STRONGLY. WITH THE APPROVAL OF THE ADVISER, UPPER DIVISION COURSES IN GENETICS, BIOCHEMISTRY, BIOPHYSICS, AND PLANT PHYSIOLOGY MAY BE COUNTED TOWARD THE MAJOR.

MINOR: TWENTY HOURS MAY BE CHOSEN FROM PHYSICS, CHEMISTRY, MICROBIOLOGY OR ZOOLOGY, PROVIDED AT LEAST 8 SEMESTER HOURS ARE OFFERED IN THE LESSER, IF TWO MINORS ARE CHOSEN.

HONORS: STUDENTS WORKING TOWARD DEPARTMENTAL DISTINCTION MUST ENROLL IN PHYSIOLOGY 290 READING COURSE, WORK WITH AN ADVISER FOR AT LEAST TWO SEMESTERS, AND TAKE A GENERAL EXAMINATION IN THE LAST SEMESTER OF THE SENIOR YEAR.

COURSES FOR UNDERGRADUATES

PHYSL 103 INTRODUCTION TO HUMAN PHYSIOLOGY.
PREREQUISITE: CHEM. 100 OR HIGH SCHOOL CHEMISTRY OR EQUIVALENT. FAMILIARITY WITH PRINCIPLES OF BIOLOGY RECOMMENDED.
4 HOURS

15646	LECT		1	MTUWTH	140	BUR HALL	BADGER
15654	LAB-DISC	1	10-12	M W	310	H H	
		1	10-12	TU TH	304	H H	
15662	LAB-DISC	2	10-12	M W	304	H H	
		2	10-12	TU TH	310	H H	
15671	LAB-DISC	3	10-12	M W	312	H H	
		3	10-12	TU TH	304A	H H	
15689	LAB-DISC	4	2-4	M W	310	H H	
		4	2-4	TU TH	304	H H	
15697	LAB-DISC	5	2-4	M W	304	H H	
		5	2-4	TU TH	310	H H	

COURSES FOR ADVANCED UNDERGRADUATES

PHYSL 290 READING COURSE.
PREREQUISITE: A COURSE IN PHYSIOLOGY, CONSENT OF INSTRUCTOR.
2 TO 4 HOURS
NOTE: THIS COURSE IS NOT LIMITED TO HONORS STUDENTS.

15700	CONF	ARR	STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

PHYSL 301 GENERAL PHYSIOLOGY.
PREREQUISITE: BIOL. 111 OR BIOL. 251, OR EQUIVALENT, AND ONE YEAR EACH OF COLLEGE-LEVEL MATHEMATICS AND PHYSICS, AND CHEMISTRY THROUGH ORGANIC.
3 HOURS OR 3/4 UNIT

15718	LECT	8	MTUWTHF	140	BUR HALL	ANDERSON

PHYSL 303 GENERAL PHYSICLOGY LABORATORY.
PREREQUISITE: PHYSL. 301 OR CURRENT REGISTRATION.
2 HOURS CR 1/4 UNIT

15726	LAB	1	1-5	M W	523	BUR HALL	ANDERSON AND
15734	LAB	2	1-5	TU TH	523	BUR HALL	OTHERS

COURSES FOR GRADUATES

PHYSL 491 INDIVIDUAL TOPICS.
PREREQUISITE: APPROVAL OF DEPARTMENT.
1/2 TO 2 UNITS

15742	CONF		ARR	STAFF

PHYSL 499 THESIS RESEARCH.
PREREQUISITE: CONSENT OF INSTRUCTOR.
0 TO 2 UNITS

15751	CONF		ARR	STAFF

PLANT PATHCLCGY

DEPARTMENT CFFICE 218 M H

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

PL PA 300 SPECIAL PRCBLEMS.
PREREQUISITE: FOR UNDERGRADUATES MINIMUM GRADE POINT AVERAGE 3.5, NOT OPEN TO STUDENTS ON PROBATION, SENICR STANDING, CONSENT CF THE INSTRUCTOR AND HEAD OF THE DEPARTMENT. SPECIFIC APPROVAL OF THE ASSOCIATE DEAN IS REQUIRED IN ADVANCE OF REGISTRATION FOR A SECOND AND/OR THIRD SPECIAL PROBLEM COURSE.
*MAXIMUM CREDIT EIGHT HOURS OR TWO UNITS.
*1 TO 4 HOURS, OR 1/4 TO 1 UNIT
BEVER, BLACK, CARTER
EDWARDS, FORSBERG,
CHAMBERLAIN, GERDEMANN, GRAY
GOTTLIEB, HARTSTIRN,
HOOKER, JEDLINSKI, LINN,
MALEK, PAXTON, POWELL,
SCHOENEWEISS, SHAW, SHURTLEFF,
SINCLAIR, TAYLOR, THCRNBERRY.
SECTICN &B IS OPEN TO JAMES SCHOLARS AND OTHER STUDENTS HAVING MINIMUM GRADE PCINT AVERAGE OF 4.0 AND MAY BE TAKEN IN CONJUNCTION WITH OTHER COURSES IN THIS DEPARTMENT SUBJECT TO APPROVAL OF INSTRUCTOR.

15769	CONF	A	ARR
15777	CONF	&B	ARR

COURSES FOR GRADUATES

PL PA 499 THESIS RESEARCH.
PREREQUISITE: PL. PA. 302 OR EQUIVALENT.
0 TO 2 UNITS
BEVER, BLACK, CARTER
CHAMBERLAIN, GERDEMANN
GOTTLIEB, HOOKER,
JEDLINSKI, LINN, MALEK,
PAXTON, POWELL, SHAW,
SHURTLEFF, SINCLAIR,
TAYLOR, THORNBERRY.

15785	CONF		ARR

DEPARTMENT OFFICE 326 L H

MAJOR: TWENTY HOURS FROM COURSES OFFERED BY THE DEPARTMENT OF POLITICAL SCIENCE. A MAJOR MAY INCLUDE THREE SEMESTER HOURS FROM THE FOLLOWING COURSES: ECONOMICS 170, 171 (STATISTICS), ECONOMICS 214 (PUBLIC FINANCE), HISTORY 345, 346, 369, 370 (CONSTITUTIONAL HISTORY), MATHEMATICS 161 (STATISTICS), PSYCHOLOGY 135 (STATISTICS), AND SOCIOLOGY 185 (STATISTICS). A MAXIMUM OF EIGHT HOURS OF 100-LEVEL COURSES MAY BE OFFERED AS PART OF THE POLITICAL SCIENCE MAJOR.

MINOR: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: ANTHROPOLOGY, ECONOMICS, EDUCATION, FINANCE, GEOGRAPHY, HISTORY, LIBRARY SCIENCE, MATHEMATICS, PHILOSOPHY, PSYCHOLOGY, SOCIAL WORK, SOCIOLOGY, AND SPEECH. ONE OF THE CURRICULA IN LATIN-AMERICA STUDIES, RUSSIAN LANGUAGE AND AREA STUDIES, OR MEDIEVAL CIVILIZATION IS ALSO ACCEPTED AS A SOLE MINOR.

STUDENTS ENTERING THE UNIVERSITY AFTER SEPTEMBER 1, 1963, MAY NOT OFFER MORE THAN EIGHT HOURS OF 100-LEVEL COURSES AS PART OF A MINOR, EXCEPT THAT MATH. 123 OR HIGHER-NUMBERED MATHEMATICS COURSES ARE NOT COUNTED IN THIS LIMITATION.

POLITICAL SCIENCE 150 AND 151 GIVE A GENERAL SURVEY OF NATIONAL, STATE AND LOCAL GOVERNMENT IN THE UNITED STATES. POLITICAL SCIENCE 191 AND 192 PRESENT A SURVEY OF THE BASIC CONCEPTS AND METHODS OF POLITICAL SCIENCE AND OF SIGNIFICANT CURRENT GOVERNMENTAL AND POLITICAL PROBLEMS AND POLICIES. UNDERGRADUATES BEGINNING THE STUDY OF POLITICAL SCIENCE ARE ADVISED TO TAKE, FIRST, EITHER POL. S. 150 OR 191. STUDENTS PLANNING TO DO ADVANCED WORK SHOULD, DURING THE SOPHOMORE YEAR, TAKE EITHER 150 OR 191 AND FOLLOW IT WITH SUCH OTHER COURSES AS COMPLETE ONE OF THE FOLLOWING COMBINATIONS: 150 AND 151, 150 AND 192, 150 AND 184, 184 AND 191, OR 191 AND 192.

COURSES FOR UNDERGRADUATES

POL S 150 AMERICAN GOVERNMENT: ORGANIZATION AND POWERS.
PREREQUISITE: SOPHOMORE STANDING, OR FRESHMAN STANDING WITH DESIGNATION AS JAMES SCHOLAR, OR CONSENT OF INSTRUCTOR.
CREDIT IS NOT GIVEN FOR BOTH POL. S. 150 AND 191.
3 HOURS

15793	LECT-DISC	8	MTUWTHF	223	G H	THOMPSON
		2	M	223	G H	

POL S 191 PRINCIPLES OF POLITICAL SCIENCE.
PREREQUISITE: SOPHOMORE STANDING, OR FRESHMAN STANDING WITH DESIGNATION AS JAMES SCHOLAR, OR CONSENT OF INSTRUCTOR.
*CREDIT IS NOT GIVEN FOR BOTH POL. S. 150 AND 191.
*4 HOURS

15806	LECT-DISC	10	MTUWTHF	317	G H	RIGDON

COURSES FOR ADVANCED UNDERGRADUATES

POL S 241 THE EMERGING NATIONS.
PREREQUISITE: THREE HOURS OF POLITICAL SCIENCE OR CONSENT OF INSTRUCTOR.
3 HOURS

15814	LECT-DISC	11	MTUWTHF	313	G H	HIGA

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

POL S 348 GOVERNMENT AND POLITICS OF JAPAN.
PREREQUISITE: SIX HOURS OF POLITICAL SCIENCE.
3 HOURS, OR 1/2 OR 1 UNIT

15822	LECT-DISC	3	MTUWTHF	313	G H	HIGA

POL S 362 ADMINISTRATIVE ORGANIZATION AND POLICY DEVELOPMENT.
PREREQUISITE: SIX HOURS OF POLITICAL SCIENCE OR CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 OR 1 UNIT

15831	LECT-DISC	2	MTUWTHF	317	G H		THOMPSON

POL S 390 METHODS OF POLITICAL ANALYSIS.
PREREQUISITE: POL. S. 150 OR 191 OR CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 OR 1 UNIT

15849	LECT-DISC	9	MTUWTHF	443	A H		HOBBS

POL S 395 MODERN POLITICAL THEORY.
3 HOURS, OR 1/2 OR 1 UNIT

15857	LECT-DISC	1	MTUWTHF	317	G H		FIELDS

COURSES FOR GRADUATES

POL S 402 HISTORY OF POLITICAL THEORIES.
1 UNIT

15865	LECT-DISC	3-5	TU TH	317	G H		FIELDS

POL S 496 POLITICAL CONCEPTS-FORMULATION AND MEASUREMENT.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

15873	LECT-DISC	10-12	TU TH	329	G H		JOHNSON

PORTUGUESE

DEPARTMENT OFFICE 224 L H

MAJOR: TWENTY HOURS IN PORTUGUESE, EXCLUDING PORTUGUESE 101 AND 102, AND INCLUDING PORTUGUESE 201 AND AT LEAST SIX HOURS OF PORTUGUESE FROM THE GROUP FOR ADVANCED UNDERGRADUATES AND GRADUATES. EITHER LINGUISTICS 300, INTRODUCTION TO LINGUISTICS, OR LINGUISTICS 302, COMPARATIVE LINGUISTICS, MAY BE COUNTED TOWARD THE MAJOR IN PORTUGUESE.

MINOR: TWENTY HOURS IN NOT MORE THAN TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: ANTHROPOLOGY, ENGLISH (EXCLUDING RHETORIC 101 AND 102), FRENCH, GEOGRAPHY, GERMAN, HISTORY, ITALIAN, LATIN, LATIN-AMERICAN STUDIES, LIBRARY SCIENCE, LINGUISTICS, MEDIEVAL CIVILIZATION STUDIES, PHILOSOPHY, POLITICAL SCIENCE, RUSSIAN, SPANISH.

COURSES FOR GRADUATES

PORT 407 STUDIES IN BRAZILIAN LITERATURE.
PREREQUISITE: PORT. 301 OR CONSENT OF INSTRUCTOR.
1 UNIT

15881	LECT-DISC	9	MTUWTH	170	L H		AIEX

PORT 491 SPECIAL TOPICS IN PORTUGUESE.
1/2 OR 1 UNIT

15890	CONF	ARR					AIEX

PORT 499 THESIS RESEARCH.
0 TO 2 1/2 UNITS

15902	CONF	ARR					KAHANE FORSTER

DEPARTMENT OFFICE 309 G H

MAJOR: THREE TYPES OF MAJOR PROGRAMS ARE OFFERED: THE GENERAL MAJOR, SUITABLE FOR STUDENTS INTERESTED PRIMARILY IN GENERAL LIBERAL EDUCATION; THE APPLIED PSYCHOLOGY MAJOR, DESIGNED FOR STUDENTS INTERESTED IN VOCATIONAL PREPARATION INVOLVING A MINIMUM OF GRADUATE TRAINING; AND THE GRADUATE PREPARATORY MAJOR, DESIGNED MAINLY TO PREPARE STUDENTS FOR GRADUATE TRAINING LEADING TO THE DOCTORATE IN PSYCHOLOGY.

THE GENERAL MAJOR MUST COMPLETE 20 HOURS IN PSYCHOLOGY BEYOND PSYCHOLOGY 100 OR 103. PSYCHOLOGY 135 IS REQUIRED IN THIS PROGRAM AND SHOULD BE TAKEN AS SOON AS POSSIBLE AFTER THE INTRODUCTORY COURSE.

THE APPLIED PSYCHOLOGY MAJOR CAN SPECIALIZE IN ANY ONE OF FOUR DIFFERENT OPTIONS, NAMELY, ENGINEERING PSYCHOLOGY, PERSONNEL PSYCHOLOGY, MEASUREMENT PSYCHOLOGY, AND SCHOOL PSYCHOLOGY. THE REQUIREMENTS FOR ENGINEERING PSYCHOLOGY ARE AS FOLLOWS: PSYCHOLOGY 235, 245, 356, 358; 12 HOURS SELECTED FROM PSYCHOLOGY 330, 331, 332, 390; COMPUTER SCIENCE 103; PHYSIOLOGY 305. THE REQUIREMENTS FOR PERSONNEL PSYCHOLOGY ARE AS FOLLOWS: PSYCHOLOGY 235, 245, 332, 355, 390; 6 HOURS SELECTED FROM PSYCHOLOGY 201, 250, 256, 356, 358; 6 HOURS SELECTED FROM ACCOUNTANCY 204; BUSINESS LAW 261; ECONOMICS 102, 103, 300; INDUSTRIAL ENGINEERING 287; SOCIOLOGY 300; COMPUTER SCIENCE 103. THE REQUIREMENTS FOR PSYCHOLOGICAL MEASUREMENT ARE AS FOLLOWS: PSYCHOLOGY 235, 245, 390; 8 HOURS SELECTED FROM PSYCHOLOGY 330, 331, 332; MATHEMATICS 315; 6 HOURS SELECTED FROM PSYCHOLOGY 201, 250, 352, 355; EDUCATIONAL PSYCHOLOGY 211, 325; COMPUTER SCIENCE 103. THE REQUIREMENTS FOR SCHOOL PSYCHOLOGY ARE AS FOLLOWS: FOUR OF THE FOLLOWING: PSYCHOLOGY 201, 216, 235, 250, 338, 390; EITHER PSYCHOLOGY 331 OR 332; SPECIAL EDUCATION 117 AND AS MANY AS POSSIBLE OF THE FOLLOWING: SPECIAL EDUCATION 316, 317, 318, 321, 322.

THE GRADUATE PREPARATORY MAJOR MUST COMPLETE 20 HOURS IN PSYCHOLOGY BEYOND PSYCHOLOGY 100 OR 103. PSYCHOLOGY 235 AND 8 HOURS OF WORK IN LABORATORY COURSES AT THE 300 LEVEL ARE REQUIRED IN THIS PROGRAM. GRADUATE PREPARATORY MAJORS SHOULD ALSO REGISTER IN SPECIAL HONORS SECTIONS WHEN AVAILABLE. THESE MAJORS ARE ALSO URGED TO TAKE MATHEMATICS THROUGH CALCULUS, AT LEAST A FULL-YEAR LABORATORY COURSE IN ANOTHER SCIENCE, AND AT LEAST TWO YEARS OF FRENCH, GERMAN OR RUSSIAN, WITH TWO YEARS IN EACH OF TWO DESIRABLE.

MINOR: FOR THE GENERAL MAJOR, 20 HOURS IN ANY SUBJECT MATTER ACCEPTED FOR CREDIT BY THE COLLEGE OF LIBERAL ARTS AND SCIENCES; IF TWO ARE CHOSEN THERE MUST BE A MINIMUM OF 8 HOURS IN EACH. IN ADDITION, IF FOREIGN LANGUAGE CREDIT IS OFFERED, IT MUST BE BEYOND THAT REQUIRED BY THE COLLEGE FOR GRADUATION.

FOR THE APPLIED PSYCHOLOGY MAJOR, THE MINOR MUST BE SELECTED IN ACCORDANCE WITH THE MAJOR OPTION. FOR ENGINEERING PSYCHOLOGY, A MINOR OR MINORS OF 20 HOURS SELECTED FROM MATHEMATICS, ENGINEERING, PHYSICS, AND PHYSIOLOGY. FOR PERSONNEL PSYCHOLOGY, A MINOR OR MINORS OF 20 HOURS SELECTED FROM MATHEMATICS, ANTHROPOLOGY, ECONOMICS, POLITICAL SCIENCE, AND SOCIOLOGY. FOR PSYCHOLOGICAL MEASUREMENT, A MINOR OF 20 HOURS IN MATHEMATICS. FOR SCHOOL PSYCHOLOGY, A MINOR OF 20 HOURS IN EDUCATION OR A SPLIT MINOR IN SPECIAL EDUCATION AND SOCIOLOGY, ANTHROPOLOGY, PHILOSOPHY OR PHYSIOLOGY.

FOR THE GRADUATE PREPARATORY MAJOR, 20 HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, PROVIDING THAT IF TWO ARE CHOSEN, THERE MUST BE A MINIMUM OF 8 HOURS IN EACH: ANTHROPOLOGY, ANY BIOLOGICAL SCIENCE, CHEMISTRY, ECONOMICS, EDUCATION, ENGINEERING, LINGUISTICS, MATHEMATICS, PHYSICS, POLITICAL SCIENCE, AND SOCIOLOGY.

DEPARTMENTAL DISTINCTION: THE MINIMUM REQUIREMENTS FOR GRADUATION WITH DEPARTMENTAL DISTINCTION IN PSYCHOLOGY ARE AS FOLLOWS: A 4.33 GRADE POINT AVERAGE IN PSYCHOLOGY COURSES, SATISFACTORY COMPLETION OF THE COURSES REQUIRED IN THE GRADUATE PREPARATORY MAJOR PROGRAM, AND FOUR HOURS OF CREDIT IN PSYCHOLOGY 291-292, THE HONORS PROGRAM SEMINAR, INCLUDING AN ACCEPTABLE BACHELOR'S THESIS.

COURSES FOR UNDERGRADUATES

PSYCH 100 INTRODUCTION TO PSYCHOLOGY.
NOT OPEN TO STUDENTS ELECTING PSYCH. 103 OR 105.
REQUIRES FIVE HOURS OF PARTICIPATION IN LABORATORY EXPERIMENTS
4 HOURS

15911	LECT	A	9	MTUWTHFS	100	G H		COSTIN & STAFF
15929	LECT	B	10	MTUWTHFS	100	G H		COSTIN & STAFF
15937	DISC	1	11	TU TH	9	PSYCH BLDG		
15945	DISC	2	11	M W	9	PSYCH BLDG		
15953	DISC	3	11	TU TH	13	PSYCH BLDG		

PSYCH 135 STATISTICAL THINKING IN PSYCHOLOGY.
PREREQUISITE: PSYCH. 100, 103, OR 105.
*CREDIT IS NOT GIVEN FOR PSYCH. 135 IN ADDITION TO ECON. 171
MATH. 161, OR PSYCH. 235.
*3 HOURS

15961	LECT	A	9-11	M W F	207	PSYCH BLDG

COURSES FOR ADVANCED UNDERGRADUATES

PSYCH 201 INTRODUCTION TO SOCIAL PSYCHOLOGY.
PREREQUISITE: PSYCH. 100, 103, OR 105.
*CREDIT IS NOT GIVEN FOR BOTH PSYCH. 201 AND SOC. 201.
*4 HOURS

15970	LECT	A	9	MTUWTHFS	32	PSYCH BLDG
15988	DISC	1	1	TU TH	9	PSYCH BLDG
15996	DISC	2	2	TU TH	9	PSYCH BLDG
16001	DISC	3	1	W F	9	PSYCH BLDG

PSYCH 216 CHILD PSYCHOLOGY.
PREREQUISITE: PSYCH. 100, 103, OR 105.
3 HOURS

16019	LECT		1-3	M W F	23	PSYCH BLDG

PSYCH 217 COMPARATIVE DEVELOPMENT.
PREREQUISITE: PSYCH. 100, 103, OR 105.
3 HOURS

16027	LECT		1-3	M W F	32	PSYCH BLDG

PSYCH 230 PERCEPTION.
PREREQUISITE: PSYCH. 100, 103, OR 105.
3 HOURS

16035	LECT		10	MTUWTHFS	23	PSYCH BLDG

PSYCH 235 STATISTICAL METHODS IN PSYCHOLOGICAL RESEARCH.
PREREQUISITE: PSYCH. 100, 103, OR 105; MATH. 111 OR EQUIVALENT.
*ONLY 1 HOUR OF CREDIT IS GIVEN TO THOSE WHO HAVE CREDIT IN
ECON. 170 OR 171, MATH. 161 OR PSYCH. 135.
*4 HOURS

16043	LECT		11	MTUWTHFS	31	PSYCH BLDG

PSYCH 248 LEARNING.
PREREQUISITE: PSYCH. 100, 103, OR 105.
3 HOURS

16051	LECT		1-220	MTUWTH	31	PSYCH BLDG

PSYCH 250 PSYCHOLOGY OF PERSONALITY.
PREREQUISITE: PSYCH. 100, 103, OR 105.
*CREDIT IS NOT GIVEN FOR BOTH PSYCH. 150 AND 250.
*3 HOURS

16060	LECT		9	MTUWTHFS	23	PSYCH BLDG

PSYCH 293 INDIVIDUAL TOPICS.
PREREQUISITE: TEN HOURS OF PSYCHOLOGY; A GRADE POINT AVERAGE OF
4.0; WRITTEN CONSENT OF INSTRUCTOR; IN EXCEPTIONAL CASES, UPON
RECOMMENDATION OF THE INSTRUCTOR AND APPROVAL BY THE HEAD OF THE
DEPARTMENT, STUDENTS MAY BE ADMITTED WITH A GRADE-POINT AVERAGE OF
3.75.
2 TO 4 HOURS

16078	CONF	A	ARR
16086	CONF	B	ARR
16094	CONF	C	ARR

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

PSYCH 338 ABNORMAL PSYCHOLOGY.
PREREQUISITE: SIX HOURS OF PSYCHOLOGY, JUNIOR STANDING EXCEPT FOR THOSE IN THE PREMEDICAL CURRICULUM WHO MAY TAKE THE COURSE AS SECOND SEMESTER SOPHOMORES WITH FOUR HOURS OF PSYCHOLOGY.
3 HOURS. CR 1/2 OR 1 UNIT

16107	LECT	11	MTUWTHFS	100	G H

PSYCH 360 MODERN VIEWPOINTS IN PSYCHOLOGY.
PREREQUISITE: SENIOR STANDING, 9 HOURS OF PSYCHOLOGY WITH AN AVERAGE GRADE OF B, WITH CONSENT OF INSTRUCTOR.
3 HOURS. CR 1/2 OR 1 UNIT

16115	LECT	11-1	M W F	207	PSYCH BLDG

PSYCH 361 ADVANCED DEVELOPMENTAL PSYCHOLOGY.
PREREQUISITE: PSYCH. 216 OR 217 AND A COURSE IN STATISTICS.
3 HOURS. CR 1/2 TO 1 UNIT

16123	LECT	1-3	M W F	207	PSYCH BLDG

PSYCH 390 PSYCHOLOGICAL TESTS AND MEASUREMENTS.
PREREQUISITE: PSYCH. 235.
4 HOURS CR 1 UNIT

16131	LECT	10-12	M W	32	PSYCH BLDG
	LAB	9-11	TU THF	219A	PSYCH BLDG

COURSES FOR GRADUATES

NOTE: THE PREREQUISITES STATED APPLY TO GRADUATE MAJORS IN PSYCHOLOGY. STUDENTS MINORING IN PSYCHOLOGY MAY, BY SPECIAL PERMISSION OF INSTRUCTORS, ENROLL IN CERTAIN OF THESE COURSES WITHOUT HAVING MET ALL OF THE PREREQUISITES.

PSYCH 470 PRINCIPLES AND METHODS OF TEACHING PSYCHOLOGY.
PREREQUISITE: SECOND-YEAR GRADUATE STANDING IN PSYCHOLOGY OR CONSENT OF INSTRUCTOR.
1/2 OR 1 UNIT

16140	LECT	9-11	TU TH	508	PSYCH BLDG	COSTIN

PSYCH 483 PSYCHOLOGY OF SPEECH AND HEARING DISORDERS, 1.
SAME AS SPCH. 483.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

16158	LECT-DISC	10-12	TU TH	324	I H

PSYCH 490 INDIVIDUAL RESEARCH.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/2 TO 2 UNITS

16166	CONF	A	ARR
16174	CONF	B	ARR
16182	CONF	C	ARR

PSYCH 493 SEMINAR.
PREREQUISITE: SIX UNITS OF GRADUATE CREDIT IN PSYCHOLOGY; CONSENT OF INSTRUCTOR.
1/2 OR 1 UNIT

16191	LECT-DISC	A	ARR
16203	LECT-DISC	B	ARR
16211	LECT-DISC	C	ARR

PSYCH 499 THESIS RESEARCH.
0 TO 2 UNITS

16220	CONF	A	ARR
16238	CONF	B	ARR

RADIO AND TELEVISION

DEPARTMENT OFFICE 227 G H

COURSES FOR ADVANCED UNDERGRADUATES

R TV 261 PRINCIPLES OF RADIO AND TELEVISION BROADCASTING.
2 HOURS
16246 LECT-DISC B 9 MTUWTH 225 G H DOUGLASS

R TV 291 SPECIAL PROBLEMS.
PREREQUISITE: CONSENT OF HEAD OF DEPARTMENT.
2 OR 3 HOURS
16254 CONF ARR STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

R TV 366 ADVANCED RADIO AND TELEVISION PRACTICES, I.
PREREQUISITE: ALL COURSES IN AREA OF SPECIALIZATION, CONSENT OF INSTRUCTOR.
2 HOURS OR 1/2 UNIT
16262 CONF ARR STAFF

R TV 367 ADVANCED RADIO AND TELEVISION PRACTICES, II.
PREREQUISITE: ALL COURSES IN AREA OF SPECIALIZATION, CONSENT OF INSTRUCTOR.
2 HOURS OR 1/2 UNIT
16271 CONF ARR STAFF

COURSES FOR GRADUATES

R TV 450 SPECIAL PROBLEMS IN TELEVISION.
PREREQUISITE: A TELEVISION COURSE IN THE AREA OF SPECIALIZATION, CONSENT OF INSTRUCTOR.
1/2 TO 3 UNITS
16289 CONF ARR STAFF

R TV 462 SEMINAR IN RADIO AND TELEVISION.
SAME AS COMM. 462.
1 UNIT
16297 LECT-DISC G 3-5 M W 123 G H MULLALLY

R TV 490 SPECIAL TOPICS IN RADIO AND TELEVISION.
PREREQUISITE: CONSENT OF HEAD OF DEPARTMENT.
1/2 OR 1 UNIT
16300 CONF ARR STAFF

R TV 499 THESIS RESEARCH.
PREREQUISITE: GRADUATE STANDING IN RADIO AND TELEVISION.
1 OR 2 UNITS
16318 CONF ARR STAFF

RECREATION AND PARK ADMINISTRATION

DEPARTMENT OFFICE 104 HUFF GYM

COURSES FOR ADVANCED UNDERGRADUATES

REC 281 PROFESSIONAL FIELD PRACTICUM.
PREREQUISITE: REC. 280.
4 HOURS

16326	CONF	ARR				STAFF

COURSES FOR GRADUATES

REC 401 FOUNDATIONS OF RECREATION.
PREREQUISITE: REC. 100 OR EQUIVALENT.
1 UNIT

16334	LECT-DISC	8-10	TU TH	133	ARMORY	SAPORA

REC 402 RECREATION ADMINISTRATION.
PREREQUISITE: BASIC COURSES IN THE ORGANIZATION OF RECREATION OR EQUIVALENT.
1 UNIT

16342	LECT-DISC	8-10	M W	133	ARMORY	LOWREY

REC 493 SPECIAL PROJECTS.
PREREQUISITE: REC. 403 OR EQUIVALENT, RECREATION MAJOR.
1/2 TO 2 UNITS

16351	CONF	ARR				STAFF

REC 499 THESIS RESEARCH.
0 TO 4 UNITS

16369	CONF	ARR				STAFF

RELIGIOUS STUDIES

DEPARTMENT OFFICE 361 L H

THIS PROGRAM IS SPONSORED BY THE COMMITTEE ON RELIGIOUS STUDY. THE FACULTY ADVISER FOR MINORS IN THIS PROGRAM IS PROFESSOR JOHN J. BATEMAN, 361 LINCOLN HALL.

THE MINOR IN RELIGIOUS STUDIES REQUIRES AT LEAST TWENTY SEMESTER HOURS (INCLUDING HUMANITIES 201 AND 202) DISTRIBUTED AMONG AT LEAST THREE DEPARTMENTS AND CHOSEN FROM THE LIST BELOW.

FOR FULL COURSE DESCRIPTIONS, CONSULT THE ENTRIES OF THE APPROPRIATE DEPARTMENTS.

ANTHROPOLOGY	363
CLASSICAL CIVILIZATION	111
HUMANITIES	201, 202, 203, 205, 206, 208
HISTORY	304, 306, 307, 397, 398, 399
PHILOSOPHY	110, 304, 324, 361, 362, 363
SOCIOLOGY	229, 328

RHETORIC
INCLUDING RHETORIC AND COMPOSITION, ENGLISH AS A SECOND LANGUAGE, AND BUSINESS AND TECHNICAL WRITING

RHETORIC AND COMPOSITION

DEPARTMENT OFFICE 100 E B

MAJOR: TWENTY HOURS IN ENGLISH, INCLUDING TEN HOURS IN LITERATURE (CHOSEN FROM ENGLISH 131 AND ENGLISH COURSES AT THE 200 OR 300 LEVELS) AND TEN HOURS OF WRITING (CHOSEN FROM RHETORIC 143, 144, 205, 206, 227, 246, 255, 263, AND 330). AT LEAST ONE COURSE IN EXPOSITORY WRITING (RHETORIC 143, 227) IS REQUIRED. WITH AN ADVISOR'S PERMISSION, SPEECH 363 OR JOURNALISM 326 MAY BE COUNTED TOWARD THE MAJOR. A STUDENT WHO PLANS TO ATTEND GRADUATE SCHOOL SHOULD TAKE INTO ACCOUNT THE ENTRANCE REQUIREMENTS OF THE GRADUATE DEPARTMENT HE WISHES TO ENTER.

MINOR: AN APPROVED SEQUENCE OF TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS WITH AT LEAST EIGHT HOURS IN THE LESSER IF TWO ARE CHOSEN: ANTHROPOLOGY, ECONOMICS, ANY FOREIGN LANGUAGE, HISTORY, HUMANITIES, LIBRARY SCIENCE, MATHEMATICS, PHILOSOPHY, POLITICAL SCIENCE, PSYCHOLOGY, SOCIOLOGY, AND SPEECH; OR AN APPROVED SEQUENCE IN HISTORY OF ARCHITECTURE, HISTORY OF ART, OR MUSIC (NOT INCLUDING APPLIED MUSIC) COMBINED WITH ANY ONE OF THE ABOVE SUBJECTS. THE PROGRAM IN ASIAN STUDIES IS ACCEPTED AS A SOLE MINOR. WITH THE WRITTEN APPROVAL OF THE DEPARTMENT ADVISER, OTHER SUBJECTS MAY BE SUBSTITUTED. NO LANGUAGE COURSES WILL SATISFY MINOR REQUIREMENTS IF THEY ARE EXCLUDED FROM THE MAJOR OF THEIR DEPARTMENT EXCEPT FRENCH 103, 104, GERMAN 103, 104, LATIN 101, 102, 103, PORTUGUESE 103, 104, RUSSIAN 103, 104, AND SPANISH 103, 104. FOREIGN LANGUAGE DEPARTMENT COURSES PRESENTING FOREIGN LITERATURE IN TRANSLATION ARE ALSO EXCLUDED. STUDENTS INTENDING TO DO GRADUATE WORK SHOULD CONSULT THE LANGUAGE REQUIREMENTS OF THE GRADUATE COLLEGE AND THE ENGLISH DEPARTMENT WHEN THEY PLAN THEIR MINOR PROGRAMS.

DEPARTMENTAL HONORS PROGRAM AND DISTINCTION: A STUDENT MAJORING IN RHETORIC AND COMPOSITION WHO MEETS THE UNIVERSITY GRADE-POINT REQUIREMENT (4.0 OR HIGHER) MAY EARN DISTINCTION ONLY BY COMPLETING NINE HOURS OF HONORS WORK IN ADDITION TO THE MINIMUM NUMBER OF HOURS REQUIRED FOR HIS MAJOR. THIS ADDITIONAL CREDIT MUST INVOLVE A SIGNIFICANT WRITING PROJECT IN RHETORIC 255, THE COMPLETION OF ENGLISH 297, AND ANY TWO OF THE FOLLOWING THREE HONORS COURSES: ENGLISH 197, 295, 296. THE LEVEL OF DISTINCTION (DISTINCTION, HIGH DISTINCTION, HIGHEST DISTINCTION) IS DETERMINED BY THE INSTRUCTORS IN CHARGE OF THE COURSES AND THE HONORS COMMITTEE. TO RECEIVE HIGH DISTINCTION, HOWEVER, A STUDENT MUST HAVE A MINIMUM GRADE-POINT AVERAGE OF 4.5 IN ALL COURSES THAT COUNT TOWARD HIS MAJOR; TO RECEIVE HIGHEST DISTINCTION, HIS AVERAGE IN THESE COURSES MUST BE AT LEAST 4.75. IF, IN THE OPINION OF HIS INSTRUCTORS AND THE COMMITTEE, A CANDIDATE HAS NOT EARNED DISTINCTION, HE MAY STILL RECEIVE CREDIT FOR THE COURSE.

COURSES FOR UNDERGRADUATES

RHET 101 FRESHMAN RHETORIC AND COMPOSITION.
3 HOURS

16377	LECT-DISC	B	9	MTUWTHF	21	PSYCH BLDG
		B	12	TU	21	PSYCH BLDG
16385	LECT-DISC	D	11	MTUWTHF	21	PSYCH BLDG
		D	12	TH	21	PSYCH BLDG

RHET 102 FRESHMAN RHETORIC AND COMPOSITION.
PREREQUISITE: RHET. 101.
3 HOURS

16393	LECT-DISC	C	10	MTUWTHF	21	PSYCH BLDG
		C	12	W	21	PSYCH BLDG
16406	LECT-DISC	E	1	MTUWTHF	21	PSYCH BLDG
		E	12	F	21	PSYCH BLDG

RHET 133 PRINCIPLES OF COMPOSITION.
PREREQUISITE: RHET. 102 OR EQUIVALENT.
*CREDIT IS NOT GIVEN FOR RHET. 133 IN ADDITION TO RHET. 143.
*3 HOURS

16414	LECT-DISC	D	11	MTUWTHF	142	ADMIN		
		D	12	TH	142	ADMIN		TILLMAN

RHET 143 INTERMEDIATE EXPOSITORY WRITING.
PREREQUISITE: A GRADE OF A OR B IN RHET. 102 OR EQUIVALENT OR CONSENT OF INSTRUCTOR.
*CREDIT IS NOT GIVEN FOR RHET. 143 IN ADDITION TO RHET. 133.
*3 HOURS

16422	LECT-DISC	B	9	MTUWTHF	108	E B		TIBBETTS
		B	12	TU	108	E B		

RHET 144 NARRATIVE WRITING.
PREREQUISITE: RHET. 102 OR EQUIVALENT, SOPHOMORE STANDING.
3 HOURS

16431	LECT-DISC	C	10	MTUWTHF	149	ADMIN		FUMENTO
		C	12	W	149	ADMIN		

RHET 145 POETRY WRITING.
PREREQUISITE: RHET. 102 OR CONSENT OF INSTRUCTOR.
3 HOURS

16449	LECT-DISC	B	9-11	M W	210A	E B		LIEBERMAN

COURSES FOR ADVANCED UNDERGRADUATES

RHET 255 CREATIVE WRITING.
STUDENTS MUST SEE THE INSTRUCTOR DURING THE FIRST WEEK OF CLASSES TO ARRANGE A CONFERENCE SCHEDULE.
PREREQUISITE: A PREPARATORY COURSE IN ADVANCED WRITING (RHET. 205, 206, 227 OR 330; OR SPCH. 263 OR 363); OR CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE FOUR HOURS.
*2 HOURS
INSTRUCTORS: CURLEY, FUMENTO, LIEBERMAN, TIBBETTS, TILLMAN.

16457	CONF		ARR					CURLEY

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

RHET 330 THE WRITING OF POETRY.
PREREQUISITE: RHET. 145, JUNIOR STANDING, AND SIX HOURS OF ENGLISH LITERATURE, OR CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE SIX HOURS.
*3 HOURS OR 3/4 UNIT

16465	LECT-DISC	F	2-4	M W	21	PSYCH BLDG		LIEBERMAN

DEPARTMENT OFFICE 317 E B

NOTE: NO STUDENT, WITH THE EXCEPTION OF THOSE WHO RECEIVED A SCORE OF 90 OR ABOVE ON THE OVERSEAS TEST, IS PERMITTED TO REGISTER FOR ANY COURSE IN REMEDIAL RHETORIC (109, 110, AND 111) OR SERVICE RHETORIC (114, 115, 400, AND 401) IN ENGLISH AS A SECOND LANGUAGE UNTIL HE HAS TAKEN THE PLACEMENT TEST IN ENGLISH AS A SECOND LANGUAGE. AUDITORS ARE NOT PERMITTED. RHETORIC 114 AND 115 FULFILL GRADUATION REQUIREMENTS IN RHETORIC. STUDENTS MAY BE REQUIRED TO TAKE REMEDIAL COURSES BEFORE THEY ARE PERMITTED TO TAKE RHET. 114. ADVISERS SHOULD CONSULT THE UNDERGRADUATE STUDY BULLETIN UNDER THE SECTION ENTITLED "GENERAL REQUIREMENTS FOR GRADUATION (ENGLISH)" FOR THE DEFINITION OF A FOREIGN STUDENT.

COURSES FOR UNDERGRADUATES

RHET 109 ENGLISH AS A SECOND LANGUAGE.
PREREQUISITE: READING KNOWLEDGE OF ENGLISH AND ABILITY TO UNDERSTAND SIMPLE INSTRUCTIONS. RECOMMENDATION FROM ILLINOIS PLACEMENT TEST.
0 CREDIT
16473 LECT-DISC B 9-11 MTUWTHFS 119 E B

RHET 110 ENGLISH AS A SECOND LANGUAGE.
PREREQUISITE: READING KNOWLEDGE OF ENGLISH AND ABILITY TO UNDERSTAND SIMPLE INSTRUCTIONS. RECOMMENDATION FROM ILLINOIS PLACEMENT TEST, OR CONSENT OF INSTRUCTOR.
0 CREDIT
16481 LECT-DISC D 11 MTUWTHFS 108 E B

RHET 111 ENGLISH AS A SECOND LANGUAGE.
PREREQUISITE: RHET. 109, RECOMMENDATION FROM ILLINOIS PLACEMENT TEST, OR CONSENT OF INSTRUCTOR.
0 CREDIT
16490 LECT-DISC B 11 MTUWTHFS 205 E B

RHET 114 COMPOSITION FOR UNDERGRADUATE FOREIGN STUDENTS.
PREREQUISITE: RHET. 111, RECOMMENDATION FROM OVERSEAS TEST OR ILLINOIS PLACEMENT TEST, OR CONSENT OF INSTRUCTOR.
*FOREIGN STUDENTS RECEIVE 3 HOURS CREDIT.
*AMERICAN STUDENTS WITH FOREIGN LANGUAGE BACKGROUND RECEIVE NO CREDIT.
*0 OR 3 HOURS
16502 LECT-DISC B 9 MTUWTHFS 210B E B

RHET 115 COMPOSITION FOR UNDERGRADUATE FOREIGN STUDENTS.
PREREQUISITE: RHET. 114 AND/OR RECOMMENDATION FROM OVERSEAS TEST OR ILLINOIS PLACEMENT TEST, OR CONSENT OF INSTRUCTOR.
*FOREIGN STUDENTS RECEIVE 3 HOURS CREDIT.
*AMERICAN STUDENTS WITH FOREIGN LANGUAGE BACKGROUND RECEIVE NO CREDIT.
*0 OR 3 HOURS
16511 LECT-DISC C 10 MTUWTHFS 210B E B

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

RHET 388 LINGUISTICS IN LANGUAGE LEARNING, I.
SAME AS LING. 388.
PREREQUISITE: TWO YEARS OF FOREIGN LANGUAGE OR EQUIVALENT, CONSENT OF INSTRUCTOR.
4 HOURS OR 3/4 UNIT
16529 LECT-DISC B 9 MTUWTHFS 252 ADMIN

COURSES FOR GRADUATES

RHET 400 VERBAL COMMUNICATION IN ENGLISH AS A SECOND LANGUAGE FOR GRADUATE FOREIGN STUDENTS, I.
PREREQUISITE: GRADUATE STANDING AND RHET. 111, OR CONSENT OF INSTRUCTOR.
4 HOURS (NO GRADUATE CREDIT)
16537 LECT-DISC ARR

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RHET  419     CONTRASTIVE ANALYSIS.
              SAME AS LING. 419.
        PREREQUISITE: LING. 300 OR CONSENT OF INSTRUCTOR.
        1/2 OR 1 UNIT
      16545      LECT-DISC  B        9       MTUWTHFS   240  ADMIN
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BUSINESS AND TECHNICAL WRITING

DEPARTMENT OFFICE 313 D K H

COURSES FOR UNDERGRADUATES

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RHET  199     UNDERGRADUATE OPEN SEMINAR.
        *MAY BE REPEATED.
        *0 TO 9 HOURS
      16553      CONF             ARR                 313  D K H          WEEKS
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COURSES FOR ADVANCED UNDERGRADUATES

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RHET  251     BUSINESS WRITING.
        PREREQUISITE: RHET. 101 AND 102, OR EQUIVALENT.
        3 HOURS
      16561      LECT-DISC  D       11       MTUWTHF     91  COM W          CHAPDU
                            D       12        TU         91  COM W          CHAPDU
      16570      LECT-DISC  E        1       MTUWTHF     28  COM W          DOUGLAS
                            E       12        TU         28  COM W          DOUGLAS

RHET  271     SALES WRITING.
              SAME AS ADV. 288.
        PREREQUISITE: RHET. 102 OR EQUIVALENT.
        2 HOURS
      16588      LECT-DISC  C       10       MTUWTH     166  COM W          MAGUIRE

RHET  272     REPORT WRITING.
        PREREQUISITE: RHET. 102 OR EQUIVALENT.
        2 HOURS
        *STUDENTS CALL AT 313 D. K. H. DURING FIRST WEEK OF CLASSES TO
        ARRANGE CONFERENCE SCHEDULE.
      16596      CONF       *Y    ARR                                      WEEKS
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SLAVIC LANGUAGES AND LITERATURES
DEPARTMENT OFFICE 260 L H

MAJOR: TWENTY-FOUR HOURS OF COURSE WORK BEYOND RUSSIAN 115, AT LEAST NINE HOURS OF WHICH MUST BE IN COURSES AT THE 300-LEVEL. MAJORS ARE REQUIRED TO TAKE A MINIMUM OF THREE LITERATURE COURSES WHICH ARE TAUGHT IN RUSSIAN AND ONE SURVEY COURSE TAUGHT IN ENGLISH.

MINOR: TWENTY HOURS IN NOT MORE THAN TWO SUBJECTS FROM THE FOLLOWING LIST, WITH AT LEAST EIGHT HOURS IN EACH SUBJECT IF TWO ARE CHOSEN: ARABIC, EDUCATION, CHINESE, ENGLISH (EXCLUDING RHETORIC 101-102), FRENCH, GERMAN, GREEK, HINDI, HISTORY, ITALIAN, JAPANESE, LATIN, LIBRARY SCIENCE, LINGUISTICS, PHILOSOPHY, POLITICAL SCIENCE, PORTUGUESE, SPANISH, OR ANY MINOR SLAVIC LANGUAGE. THE FIRST SEMESTER OF COURSE WORK IN ANY FOREIGN LANGUAGE MAY NOT BE COUNTED TOWARD A MINOR IN THAT SUBJECT. THE CURRICULUM IN RUSSIAN LANGUAGE AND AREA STUDIES COMPRISING COURSES OUTSIDE THE SLAVIC DEPARTMENT MAY BE ACCEPTED AS A SOLE MINOR.

COURSES FOR UNDERGRADUATES

RUSS 101 FIRST-YEAR RUSSIAN, I.
FOR STUDENTS WHO HAVE NO CREDIT IN RUSSIAN.
*NO CREDIT TOWARD GRADUATION IS GIVEN FOR RUSS. 101 WITHOUT RUSS. 102.
*4 HOURS
ALL STUDENTS IN THIS COURSE ARE REQUIRED TO REGISTER FOR FOUR HOURS OF WORK WEEKLY IN THE LANGUAGE LABORATORY.
NOTE: TAUGHT DURING FIRST FOUR WEEKS ONLY, JUNE 22-JULY 18, IN CONJUNCTION WITH RUSS. 111.

16609	LECT-DISC	AB	8-10	MTUWTH	254	ADMIN	ZALUCKY H
		AB	12-2	MTUWTH	17	PSYCH BLDG	GIES M
16617	LAB	M9	11-1130	MTUWTH	202	L H	
		M9	2-230	MTUWTH	202	L H	

RUSS 102 FIRST-YEAR RUSSIAN, II.
PREREQUISITE: RUSS. 101.
4 HOURS
ALL STUDENTS IN THIS COURSE ARE REQUIRED TO REGISTER FOR FOUR HOURS OF WORK WEEKLY IN THE LANGUAGE LABORATORY.
NOTE: TAUGHT DURING SECOND FOUR WEEKS ONLY, JULY 20-AUGUST 15, IN CONJUNCTION WITH RUSS. 111.

16625	LECT-DISC	AB	8-10	MTUWTH	254	ADMIN	ZALUCKY H
		AB	12-2	MTUWTH	17	PSYCH BLDG	GIES M
16633	LAB	M9	11-1130	MTUWTH	202	L H	
		M9	2-230	MTUWTH	202	L H	

RUSS 103 SECOND-YEAR RUSSIAN, I.
PREREQUISITE: RUSS. 102 OR EQUIVALENT.
4 HOURS
ALL STUDENTS IN THIS COURSE ARE REQUIRED TO REGISTER FOR FOUR HOURS OF WORK WEEKLY IN THE LANGUAGE LABORATORY.
NOTE: TAUGHT DURING FIRST FOUR WEEKS ONLY, JUNE 22-JULY 18, IN CONJUNCTION WITH RUSS. 112.

16641	LECT-DISC	AB	8-10	MTUWTH	240	L H	MAJHANOVICH
		AB	12-2	MTUWTH	13	PSYCH BLDG	ZALUCKY M
16650	LAB	M9	11-1130	MTUWTH	202	L H	
		M9	2-230	MTUWTH	202	L H	

RUSS 104 SECOND-YEAR RUSSIAN, II.
PREREQUISITE: RUSS. 103.
4 HOURS
NOTE: TAUGHT DURING LAST 4 WEEKS ONLY, JULY 20-AUGUST 15, IN CONJUNCTION WITH RUSS. 112.
ALL STUDENTS IN THIS COURSE ARE REQUIRED TO REGISTER FOR FOUR HOURS OF WORK WEEKLY IN THE LANGUAGE LABORATORY.

16668	LECT-DISC	AB	8-10	MTUWTH	240	L H	MAJHANOVICH
		AB	12-2	MTUWTH	13	PSYCH BLDG	ZALUCKY M
16676	LAB	M9	11-1130	MTUWTH	202	L H	
		M9	2-230	MTUWTH	202	L H	

RUSS 111 INTENSIVE FIRST-YEAR RUSSIAN.
FOR STUDENTS WHO HAVE NO CREDIT IN RUSSIAN.
8 HOURS
ALL STUDENTS IN THIS COURSE ARE REQUIRED TO REGISTER FOR FOUR HOURS OF WORK WEEKLY IN THE LANGUAGE LABORATORY.

16684	LECT-DISC	A8	8-10	MTUWTH	254	ADMIN	ZALUCKY H
		A8	12-2	MTUWTH	17	PSYCH BLDG	GIES M
16692	LAB	M9	11-1130	MTUWTH	202	L H	
		M9	2-230	MTUWTH	202	L H	

RUSS 112 INTENSIVE SECOND-YEAR RUSSIAN.
PREREQUISITE: RUSS. 111 OR 102.
8 HOURS
ALL STUDENTS IN THIS COURSE ARE REQUIRED TO REGISTER FOR FOUR HOURS OF WORK WEEKLY IN THE LANGUAGE LABORATORY.

16705	LECT-DISC	A8	8-10	MTUWTH	240	L H	MAJHANOVICH
		A8	12-2	MTUWTH	13	PSYCH BLDG	ZALUCKY M
16713	LAB	M9	11-1130	MTUWTH	202	L H	
		M9	2-230	MTUWTH	202	L H	

RUSS 121 BEGINNING READING COURSE, I.
NO PRIOR KNOWLEDGE OF RUSSIAN REQUIRED.
4 HOURS

16721	LECT-DISC	A8	8-10	MTUWTH	17	PSYCH BLDG	L WOODRUFF

RUSS 122 BEGINNING READING COURSE, II.
PREREQUISITE: RUSS. 121.
4 HOURS

16730	LECT-DISC	A8	8-10	MTUWTH	207	G H	STAFF

COURSES FOR ADVANCED UNDERGRADUATES

RUSS 211 ORAL RUSSIAN, I.
PREREQUISITE: RUSS. 103 AND 104 OR CONSENT OF INSTRUCTOR.
2 HOURS

16748	LECT-DISC	C	10	MTUWTH	254	ADMIN	M ZALUCKY

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

RUSS 303 ADVANCED READING AND CONVERSATION, I.
PREREQUISITE: THREE YEARS OF COLLEGE-LEVEL RUSSIAN.
2 HOURS OR 1/2 UNIT

16756	LECT-DISC	A	8	MTUWTH	13	PSYCH BLDG	M ZALUCKY

RUSS 308 RUSSIAN PHONETICS AND PRONUNCIATION.
PREREQUISITE: RUSS. 212, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 3/4 UNIT

16764	LECT-DISC	FG	2-315	MTUWTH	254	ADMIN	DAWSON

RUSS 313 ADVANCED COMPOSITION AND USAGE, I.
PREREQUISITE: THREE YEARS OF COLLEGE RUSSIAN, INCLUDING RUSS. 213 AND 214, OR CONSENT OF DEPARTMENT.
3 HOURS OR 3/4 UNIT

16772	LECT-DISC	XE	1230-145	MTUWTH	254	ADMIN	H ZALUCKY

RUSS 317 SOVIET LITERATURE IN TRANSLATION.
NO KNOWLEDGE OF RUSSIAN LANGUAGE IS REQUIRED.
PREREQUISITE: JUNIOR STANDING OR CONSENT OF INSTRUCTOR.
3 HOURS OR 3/4 UNIT

16781	LECT-DISC	DX	11-1215	MTUWTH	254	ADMIN	BROSTROM

RUSS 322 DOSTOEVSKY AND TOLSTOY.
PREREQUISITE: RUSS. 216 OR CONSENT OF INSTRUCTOR.
3 HOURS OR 3/4 UNIT

16799	LECT-DISC	B	9-11	M W F	13	PSYCH BLDG	PACHMUSS

COURSES FOR GRADUATES

RUSS 400 BEGINNING RUSSIAN FOR GRADUATE STUDENTS.
4 HOURS

16801	LECT-DISC	A8	8-10	MTUWTH	17	PSYCH BLDG	WOODRUFF

RUSS 401 READINGS IN RUSSIAN FOR GRADUATE STUDENTS.
PREREQUISITE: RUSS. 400 OR EQUIVALENT.
4 HOURS
16810 LECT-DISC AB 8-10 MTUWTH 207 G H STAFF

RUSSIAN AND EAST EUROPEAN CENTER

DEPARTMENT OFFICE 1207 W OREGON

STUDENTS IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES

MAJOR: STUDENTS WHO ELECT RUSSIAN LANGUAGE AND AREA STUDIES AS A MAJOR MUST:
1-COMPLETE THE PRESCRIBED AND GENERAL EDUCATION SEQUENCES REQUIRED IN THE SCIENCES AND LETTERS CURRICULUM.
2-COMPLETE AT LEAST TWENTY SEMESTER HOURS OF RUSSIAN LANGUAGE COURSES. IN ADDITION TO RUSS. 101-102, OR DEMONSTRATE EQUIVALENT PROFICIENCY.
3-COMPLETE A MAJOR CONSISTING OF AT LEAST TWENTY SEMESTER HOURS DISTRIBUTED AMONG AT LEAST FOUR DEPARTMENTS AND CHOSEN FROM THE COURSES LISTED BELOW. COURSES USED FOR MAJOR OR MINOR CREDIT OUTSIDE THE PROGRAM OF RUSSIAN LANGUAGE AND AREA STUDIES MAY NOT COUNT AS PART OF THIS TWENTY HOURS.

ANTH. 381, 382	POL. S. 335, 383
ECON. 357	RUSS. 115, 116, 317, 321, 322,
GEOG. 353	323, 324, 325, 332, 333, 335
HIST. 219, 320, 321,	SOC. 350
325, 326, 327, 328,	UKR. 396, 398

4-COMPLETE A MINOR OF TWENTY HOURS, EXCLUDING COURSES OPEN TO FRESHMEN, IN ONE OR TWO DEPARTMENTS. IF TWO ARE CHOSEN, AT LEAST EIGHT HOURS MUST BE TAKEN IN EACH. COURSE IN THE RUSSIAN LANGUAGE MAY, WITH THE APPROVAL OF THE CENTER DIRECTOR, CONSTITUTE ALL OR PART OF THIS MINOR.

RUSSIAN LANGUAGE AND AREA STUDIES AS A MINOR: A MINOR IN RUSSIAN LANGUAGE AND AREA STUDIES, DESIGNED TO ACCOMPANY A MAJOR IN ANY DEPARTMENT, REQUIRES AT LEAST TWENTY SEMESTER HOURS DISTRIBUTED AMONG AT LEAST THREE DEPARTMENTS AND CHOSEN FROM THE COURSES LISTED BELOW. IT ALSO REQUIRES A KNOWLEDGE OF RUSSIAN EQUIVALENT AT LEAST TO THAT NORMALLY ATTAINED AFTER RUSS. 101-102.

ANTH. 381, 382	POL. S. 335, 383
ECON. 357	RUSS. 115, 116, 317, 321, 322,
GEOG. 353	323, 324, 325, 332, 333, 335
HIST. 219, 320, 321,	SOC. 350
325, 326, 327, 328	UKR. 396, 398

GRADUATE MINORS IN RUSSIAN LANGUAGE AND AREA STUDIES

MINOR FOR THE MASTERS DEGREE: A CANDIDATE FOR THE MASTERS DEGREE WHO ELECTS RUSSIAN LANGUAGE AND AREA STUDIES AS A MINOR MUST EARN AT LEAST TWO UNITS OF GRADUATE CREDIT IN COURSES CHOSEN FROM THE LIST GIVEN BELOW. THE COURSES CHOSEN MUST BE IN AT LEAST TWO DEPARTMENTS.

ANTH. 381, 382	POL. S. 335, 383, 435, 440
ECON. 357, 457	RUSS. 317, 321, 322, 323, 324
	325, 332, 333, 335, 410,
GEOG. 353, 495	412, 414, 416, 417, 421,
	423
HIST. 320, 321, 325, 326,	SLAV. 405
327, 328, 427	SOC. 350, 450
LAW. 369, 371	UKR. 396, 398
LIB. S. 433	

MINOR FOR THE PH.D. DEGREE: A DOCTORAL CANDIDATE WHO ELECTS RUSSIAN LANGUAGE AND AREA STUDIES AS A MINOR MUST DEMONSTRATE A READING COMMAND OF RUSSIAN AS TESTED BY EXAMINATION OR BY COMPLETION OF RUSSIAN 104 OR 401 WITH A GRADE OF A OR B, AND IN ADDITION MUST EARN AT LEAST FOUR UNITS OF GRADUATE CREDIT IN COURSES CHOSEN FROM THE LIST GIVEN JUST ABOVE. THE FOUR UNITS MUST BE DISTRIBUTED AMONG AT LEAST TWO DEPARTMENTS OUTSIDE OF, AND MAY AT THE SAME TIME INCLUDE UP TO ONE UNIT FROM WITHIN, THE DEPARTMENT OFFERING THE CANDIDATE'S MAJOR.

CERTIFICATE OF GRADUATE SPECIALIZATION IN RUSSIAN LANGUAGE AND AREA STUDIES

THIS CERTIFICATE IS AWARDED BY THE GRADUATE COLLEGE AND THE CENTER FOR RUSSIAN LANGUAGE AND AREA STUDIES. IT IS FOR PERSONS WITH THE BACCALAUREATE WHO ARE ENROLLED IN ADVANCED STUDIES IN ANY DISCIPLINE AND WHO WISH AT THE SAME TIME TO GAIN A KNOWLEDGE OF THE RUSSIAN AREA AND LANGUAGE. THE REQUIREMENTS ARE: (1) A GOOD COMMAND OF WRITTEN AND SPOKEN RUSSIAN, AS DETERMINED BY SPECIAL EXAMINATIONS. (2) AT LEAST SIX GRADUATE UNITS RELATING TO RUSSIA, DISTRIBUTED AMONG AT LEAST THREE OF THE DEPARTMENTS REPRESENTED IN THE PROGRAM (ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, HISTORY, LAW, LIBRARY SCIENCE, POLITICAL SCIENCE, RUSSIAN AND SOCIOLOGY) IN ADDITION TO THE STUDENT'S OWN MAJOR DEPARTMENT. FOR COURSES, SEE ABOVE. IF THE STUDENTS MAJOR DEPARTMENT IS ONE OF THESE NINE HE MAY COUNT, AS PART OF HIS SIX UNITS, UP TO ONE UNIT FROM WITHIN HIS MAJOR DEPARTMENT. (3) A SPECIAL ESSAY BASED LARGELY ON RUSSIAN SOURCES AND TO BE, AT THE MINIMUM, OF THE STANDARD NORMALLY REQUIRED IN A MASTERS THESIS. THE STUDENT MAY SUBMIT, IN FULFILLMENT OF THIS REQUIREMENT, A COPY OF HIS MASTERS THESIS OR DOCTORAL DISSERTATION.

THE ADVISER FOR THE GRADUATE MINORS AND THE CERTIFICATE IS PROFESSOR RALPH T. FISHER JR., DIRECTOR OF RUSSIAN AND EAST EUROPEAN CENTER, 1207 WEST OREGON.

STUDENTS IN OTHER COLLEGES

STUDENTS IN OTHER COLLEGES AND SCHOOLS OF THE UNIVERSITY WHO DESIRE A KNOWLEDGE OF THE RUSSIAN AREA ARE INVITED TO CONSULT, EITHER DIRECTLY OR THROUGH THEIR ADVISERS, WITH THE DIRECTOR OF RUSSIAN AND EAST EUROPEAN CENTER IN ORDER TO DEVELOP PROGRAMS SUITED TO THEIR INDIVIDUAL NEEDS. SUCH PROGRAMS MAY IN SOME CASES BE ADOPTED AS A SPECIAL MINOR.

BELOW ARE LISTED COURSES APPROVED FOR THE RUSSIAN LANGUAGE AND AREA STUDIES PROGRAMS. FOR FULL COURSE DESCRIPTIONS OF THOSE BEING OFFERED THIS SEMESTER CONSULT THE ENTRIES OF THE APPROPRIATE DEPARTMENTS.

ANTH	381, 382	RUSS	103, 104, 112, 115, 116
ECON	357, 457		211, 212, 213, 214, 215,
GEOG	353, 381, 382, 495		216, 280, 291, 292, 303,
HIST	219, 320, 321, 325,		304, 307, 308, 313, 314,
	326, 327, 328, 427		317, 321, 322, 323, 324,
LAW	369, 371		325, 326, 332, 333, 335,
LIB S	433		337, 410, 412, 414, 416,
POL S	335, 383, 435, 440		417, 421, 423
POL	201, 202, 203, 204	SLAV	405
RUMAN	201, 202	SOC	350, 450
		UKR	396, 398

SAFETY EDUCATION

DEPARTMENT OFFICE 114 HUFF GYM

COURSES FOR ADVANCED UNDERGRADUATES

S ED 284 DRIVER EDUCATION.
PREREQUISITE: DRIVERS LICENSE, JUNIOR STANDING.
3 HOURS
THIS COURSE MEETS FROM JUNE 23 - JULY 10, 1970.

16828	LECT-DISC	8-10	MTUWTHF	D	LAW	FLORIO
		2-5	MTUWTHF	D	LAW	

S ED 294 ADVANCED TRAFFIC SAFETY EDUCATION.
PREREQUISITE: S. ED. 284.
3 HOURS
THIS COURSE MEETS FROM JULY 27 - AUGUST 14, 1970.

16836	LECT-DISC	8-10	MTUWTHF	D	LAW	NIVA
		2-5	MTUWTHF	D	LAW	

COURSES FOR GRADUATES

S ED 402 PROBLEMS IN SAFETY EDUCATION.
1 UNIT

16844	LECT-DISC	C	10	MTUWTH	133	ARMORY	FLORIO

SECONDARY AND CONTINUING EDUCATION

DEPARTMENT OFFICE EDUCATION BUILDING

COURSES FOR UNDERGRADUATES

SE ED 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS

16852	CONF	ARR

COURSES FOR ADVANCED UNDERGRADUATES

SE ED 240 PRINCIPLES OF SECONDARY EDUCATION.
PREREQUISITE: SE. ED. 101 AND PSYCH. 100.
2 HOURS

16861	LECT-DISC	M	9	TUWTHF	136	ARMORY	WELLER
16879	LECT-DISC	S	2	TUWTHF	137	ARMORY	GOULD

SE ED 249 INDEPENDENT STUDY.
PREREQUISITE: UPPER CLASSMAN, UPPER 5 PER CENT OF CLASS IN GRADE POINT AVERAGE, CONSENT OF ADVISER AND STAFF MEMBER WHO SUPERVISES THE WORK.
2 HOURS

16887	CONF	&A	ARR

SE ED 291 THESIS.
PREREQUISITE: SENIOR STANDING.
2 HOURS

16895	CONF	ARR

SE ED 292 THESIS.
PREREQUISITE: SENIOR STANDING.
2 HOURS

16908	CONF	ARR

SE ED 354 AUDIO-VISUAL COMMUNICATION.
SAME AS EL. ED. AND LIB. S. 354.
PREREQUISITE: SENIOR OR GRADUATE STANDING.
3 HOURS, OR 1/2 OR 1 UNIT

16916	LECT-DISC		8-10	TU TH	405	E H	ISAACS
	LAB		8-10	W F	405	E H	ISAACS

COURSES FOR GRADUATES

SE ED 439 FUNDAMENTALS OF CURRICULUM DEVELOPMENT.
1 UNIT

16924	LECT-DISC	P	11	TUWTHF	21	D K H	ERICKSON
16932	LECT-DISC	R	1	TUWTHF	137	ARMORY	FILLION
16941	LECT-DISC	N	10	TUWTHF	24	COM W	COX

SE ED 441 LINGUISTIC AND LOGICAL ANALYSIS OF TEACHING.
1 UNIT

16959	LECT-DISC		10	TUWTHF	219	G H	HENDERSON

SE ED 449 INDEPENDENT STUDY.
PREREQUISITE: APPROVAL OF STUDY OUTLINE BY ADVISER AND THE DEPARTMENT CHAIRMAN PRIOR TO ENROLLMENT.
*MAY BE REPEATED FOR A MAXIMUM OF TWO UNITS, OR MORE BY SPECIAL CONSENT OF THE DEAN.
*1/2 OR 1 UNIT

16967	CONF		ARR				

SE ED 456 PROBLEMS AND TRENDS IN SPECIALIZED FIELDS OF SECONDARY EDUCATION.
1 UNIT
*SECTION A IS FOR ENGLISH, SECTION C IS FOR MATH, SECTION D IS FOR SCIENCE, SECTION E IS FOR SOCIAL STUDIES AND SECTION F IS FOR PHYSICAL EDUCATION.

16975	LECT-DISC	*A	8	TUWTHF	1	G H	ERICKSON
16983	LECT-DISC	*C	8	TUWTHF	382	EDUC	HENDERSON
16991	LECT-DISC	*D	10	TUWTHF	4G	EDUC	WELLER
17006	LECT-DISC	*E	11	TUWTHF	20	COM W	METCALF
17014	LECT-DISC	*F	9	TUWTHF	162	EDUC	KNAPP

SE ED 459 WORKSHOP IN CURRICULUM DEVELOPMENT.
1/2 TO 2 UNITS
*SECTION A IS FOR SOCIAL STUDIES. 2 UNITS.
*B SECTIONS ARE RESTRICTED TO NATIONAL SCIENCE FOUNDATION MATHEMATICS PROGRAM. SECTION B1 MEETS JUNE 29 TO AUG. 7. SECTIONS B2, B3 AND B4 MEET JUNE 29 TO JULY 24. SECTIONS B5, B6, AND B7 MEET JULY 27 TO AUG. 21. SECTION B8 RESERVED FOR OFF-CAMPUS PARTICIPANTS. SECTION C IS FOR SCIENCE. 1 UNIT.
*SECTION D IS A WORKSHOP IN ENGLISH PROGRAMS FOR THE DISADVANTAGED. 2 UNITS.
*SECTION E IS FOR STUDENTS ELECTING PUERTO RICAN OPTION IN OVERSEAS INTERCULTURAL EDUCATION.

17022	LECT-DISC	*A	1-3	TUWTHF	136	ARMORY	PAYETTE
17031	LECT-DISC	*B1	8-12	MTUWTHF	328	ARMORY	ZWOYER
		*B1	1-3	MTUWTHF	328	ARMORY	
17049	LECT-DISC	*B2	8-12	MTUWTHF	329	ARMORY	
		*B2	1-3	MTUWTHF	329	ARMORY	
17057	LECT-DISC	*B3	8-12	MTUWTHF	330	ARMORY	
		*B3	1-3	MTUWTHF	330	ARMORY	
17065	LECT-DISC	*B4	8-12	MTUWTHF	331	ARMORY	
		*B4	1-3	MTUWTHF	331	ARMORY	
17073	LECT-DISC	*B5	8-12	MTUWTHF	329	ARMORY	
		*B5	1-3	MTUWTHF	329	ARMORY	
17081	LECT-DISC	*B6	8-12	MTUWTHF	330	ARMORY	
		*B6	1-3	MTUWTHF	330	ARMORY	
17090	LECT-DISC	*B7	8-12	MTUWTHF	331	ARMORY	
		*B7	1-3	MTUWTHF	331	ARMORY	
17102	LECT-DISC	*B8	ARR				
17111	LECT-DISC	*C	1	TUWTHF	4G	EDUC	GOULD
17129	LECT-DISC	*D	2-4	TUWTHF	24	COM W	MARQUARDT
17137	LECT-DISC	E	ARR				BROWN

SE ED 467 THE AMERICAN COLLEGE.
1 UNIT

17145	LECT-DISC		10	TUWTHF	136	ARMORY	FLEY

SE ED 490 SEMINAR FOR ADVANCED STUDENTS OF EDUCATION.
OPEN ONLY TO PERSONS WHO HAVE BEEN ADMITTED FOR DOCTORAL STUDY IN SECONDARY AND CONTINUING EDUCATION.
*MAY BE REPEATED FOR A MAXIMUM OF 2 UNITS.
*0 TO 1 UNIT
SECTION A IS FOR ENGLISH, SECTION B IS FOR FOREIGN LANGUAGES, SECTION C IS FOR MATHEMATICS, SECTION D IS FOR SCIENCE, SECTION E IS FOR SOCIAL STUDIES, AND SECTION F IS FOR GENERAL CURRICULUM.

17153	CONF	A	ARR	MADSEN
17161	CONF	B	ARR	KETTELKAMP
17170	CONF	C	ARR	PINGRY
17188	CONF	D	ARR	BURNETT
17196	CONF	E	ARR	METCALF
17209	CONF	F	ARR	METCALF

SE ED 491 FIELD STUDY AND THESIS SEMINAR.
LIMITED TO STUDENTS WHO HAVE BEEN ADMITTED FOR DOCTORAL STUDY.
1 TO 2 UNITS

17217	CONF		ARR

SE ED 499 THESIS RESEARCH.
0 TO 2 1/2 UNITS

17225	CONF		ARR

SLAVIC

SLAVIC LANGUAGES AND LITERATURES
DEPARTMENT OFFICE 260 L H

COURSES FOR GRADUATES

SLAV 491 INDIVIDUAL TOPICS.
PREREQUISITE: GRADUATE STANDING WITH A MAJOR OR MINOR IN RUSSIAN.
1/4 TO 2 UNITS
*SECTION A TOPIC: RUSSIAN LITERATURE.
*SECTION B TOPIC: SLAVIC LINGUISTICS.

17233	CONF	*A	ARR
17241	CONF	*B	ARR

SLAV 499 THESIS RESEARCH.
0 TO 2 UNITS

17250	CONF		ARR

THE DIVISION OF SOCIAL SCIENCES SPONSORS THE FOLLOWING PROGRAMS: (1) AN UNDERGRADUATE MINOR IN LATIN AMERICAN STUDIES; (2) A GRADUATE MINOR IN LATIN AMERICAN STUDIES; (3) AN UNDERGRADUATE MAJOR AND MINOR IN RUSSIAN AREA STUDIES; (4) A GRADUATE MINOR IN RUSSIAN AREA STUDIES; (5) A GRADUATE PROGRAM LEADING TO THE DEGREE OF MASTER OF ARTS IN THE SOCIAL SCIENCES; (6) A GRADUATE PROGRAM LEADING TO THE DEGREE OF MASTER OF ARTS IN THE TEACHING OF SOCIAL STUDIES; (7) A GRADUATE MAJOR AND MINOR AND UNDERGRADUATE MINOR IN LINGUISTICS; (8) AN UNDERGRADUATE MINOR IN ASIAN STUDIES; (9) A GRADUATE MINOR IN ASIAN STUDIES.

THE DIVISION OF SOCIAL SCIENCES CALLS TO THE ATTENTION OF STUDENTS THE OFFERINGS IN THE GENERAL FIELD OF INTERNATIONAL AFFAIRS AND OF NON-WESTERN AREAS FOUND AT THE UNIVERSITY OF ILLINOIS. THE DIVISION RECOMMENDS THAT THE STUDENT INTERESTED IN INTERNATIONAL AFFAIRS AND NON-WESTERN AREAS CONSULT WITH THE ADVISOR IN HIS MAJOR DEPARTMENT OR WITH THE CENTERS FOR ASIAN, LATIN AMERICAN, AND RUSSIAN LANGUAGE AND AREA STUDIES CONCERNING THE POSSIBILITY OF TAKING COURSES IN THESE SUBJECTS, EITHER AS PART OF A MINOR OR SPLIT MINOR, OR AS ELECTIVES.

ENTRANCE EXAMINATIONS FOR THE FOREIGN SERVICE OF THE UNITED STATES. STUDENTS INTERESTED IN PREPARING FOR THESE EXAMINATIONS ARE URGED TO CONSULT WITH THE GOVERNMENT PLACEMENT CONSULTANT OF THE UNIVERSITY PLACEMENT SYSTEM, WHO MAY BE SEEN AT THE INSTITUTE OF GOVERNMENT AND PUBLIC AFFAIRS, 1201 WEST NEVADA STREET.

SOCIAL WORK

DEPARTMENT OFFICE 1207 W OREGON

COURSES FOR ADVANCED UNDERGRADUATES

SOC W 225 INTRODUCTION TO SOCIAL WELFARE, I.
PREREQUISITE: SOC. 100 OR 151; AND PSYCH. 100 OR 103; OR D. G. S. 171.
3 HOURS

17268	LECT-DISC	8-10	MTUW	447	A H	STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

SOC W 318 SPECIAL PROBLEMS.
PREREQUISITE: CREDIT OR REGISTRATION IN SOC. W. 300 AND CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 TO 1 UNIT

17276	CONF	A	ARR	21	1207 W ORE	STAFF

COURSES FOR GRADUATES

ALL 400 LEVEL SOCIAL WORK COURSES FOR SUMMER SESSION 1970 ARE SCHEDULED FOR A TWELVE-WEEK PERIOD.

SOC W 431 PRACTICE SEMINAR, I.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

17284	PRACT	A	ARR	133	1207 W ORE	STAFF
17292	PRACT	B	ARR	103	1207 W ORE	STAFF
17305	PRACT	C	ARR	21	1207 W ORE	STAFF
17313	PRACT	D	ARR	21	1207 W ORE	STAFF
17321	PRACT	E	ARR	103	1207 W ORE	STAFF

SOC W 432 PRACTICE SEMINAR, II.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

17330	PRACT	A	ARR	133	1207 W ORE	STAFF

SOC W 461 SPECIAL STUDIES IN SOCIAL WORK I.
1/2 TO 2 UNITS

17348	LECT-DISC	A	ARR	133	1207 W	ORE	STAFF

SOC W 468 FIELD INSTRUCTION, III.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 TO 2 UNITS

17356	PRACT	A	ARR	103	1207 W	ORE	STAFF
17364	PRACT	B	ARR	103	1207 W	ORE	STAFF
17372	PRACT	C	ARR	103	1207 W	ORE	STAFF
17381	PRACT	D	ARR	103	1207 W	ORE	STAFF
17399	PRACT	E	ARR	133	1207 W	ORE	STAFF

SOC W 469 FIELD INSTRUCTION, IV.
PREREQUISITE: SOC. W. 468.
1 TO 2 UNITS

17401	PRACT	A	ARR	133	1207 W	ORE	STAFF

SOC W 491 RESEARCH SEMINAR.
PREREQUISITE: CONSENT OF INSTRUCTOR.
0 TO 2 UNITS

17410	PRACT	A	ARR	21	1207 W	ORE	STAFF
17428	PRACT	B	ARR	21	1207 W	ORE	STAFF
17436	PRACT	C	ARR	21	1207 W	ORE	STAFF
17444	PRACT	D	ARR	21	1207 W	ORE	STAFF
17452	PRACT	E	ARR	21	1207 W	ORE	STAFF

SOCIOLOGY

DEPARTMENT OFFICE 342 L H

MAJOR: TWENTY HOURS FROM COURSES IN SOCIOLOGY, EXCLUDING SOCIOLOGY 100, 151, AND 152. SOCIOLOGY MAJORS ARE REQUIRED TO TAKE SOCIOLOGY 184, 185, 300, AT LEAST ONE COURSE FROM AMONG 201, 212, 320, AND 321 (THE INTERPERSONAL RELATIONS AREA), AND AT LEAST ONE COURSE FROM AMONG 218, 223, 270, AND 322 (THE SOCIETAL ANALYSIS AREA).

MINORS: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: ANTHROPOLOGY, ECONOMICS, HISTORY, LAW, MATHEMATICS, PHILOSOPHY, POLITICAL SCIENCE PSYCHOLOGY AND SOCIAL WORK. THE CURRICULUM IN RUSSIAN LANGUAGE AND AREA STUDIES IS ALSO ACCEPTED AS A MINOR.

DEPARTMENTAL DISTINCTION: IN ORDER TO BE AWARDED DISTINCTION IN SOCIOLOGY AT GRADUATION, THE STUDENT MUST (1) HAVE AT LEAST A 4.0 ALL UNIVERSITY GRADE POINT AVERAGE; (2) MEET THE GENERAL REQUIREMENTS FOR A MAJOR IN SOCIOLOGY; AND (3) IN ADDITION TO THE WORK DONE FOR THE MAJOR, EARN FOUR SEMESTER HOURS OF CREDIT BY ENROLLING IN BOTH OF THE HONORS COURSES (SOC. 290 AND 291).

COURSES FOR UNDERGRADUATES

SOC 100 INTRODUCTION TO SOCIOLOGY.
*CREDIT IS NOT GIVEN FOR BOTH SOC. 100 AND R. SOC. 117.
*3 HOURS

17461	LECT-DISC	L	8-10	TUWTH	192	L H	JONES

SOC 190 INDIVIDUAL TOPICS FOR UNDERGRADUATES.
PREREQUISITE: SIX HOURS OF SOCIOLOGY OR THREE HOURS OF SOCIOLOGY, CONCURRENT REGISTRATION IN ANOTHER SOCIOLOGY COURSE AND CONSENT OF INSTRUCTOR.
*MAY BE REPEATED FOR A TOTAL OF 4 HOURS.
*1 OR 2 HOURS

17479	CONF	A	ARR				STAFF

COURSES FOR ADVANCED UNDERGRADUATES

SOC 240 COLLECTIVE BEHAVIOR.
PREREQUISITE: SOC. 100 OR 151.
3 HOURS

17487	LECT-DISC	L	8-10	TUWTH	314	L H	MCPHAIL

SOC 290 HONORS.
PREREQUISITE: SENIOR STANDING AND CONSENT OF INSTRUCTOR.
2 HOURS

17495	CONF	A	ARR	STAFF

SOC 291 HONORS.
PREREQUISITE: SENIOR STANDING AND CONSENT OF INSTRUCTOR.
2 HOURS

17508	CONF	A	ARR	STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

SOC 300 SOCIAL SYSTEMS AND INSTITUTIONS.
PREREQUISITE: SOC. 100, OR EIGHT HOURS IN SOCIAL SCIENCE, OR CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 OR 1 UNIT

17516	LECT-DISC	C	10-12	M W F	314	L H	DRUM

SOC 382 DEVELOPMENT OF SOCIOLOGICAL THOUGHT.
PREREQUISITE: SOC. 100 OR 8 HOURS OF SOCIAL SCIENCE, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1 UNIT

17524	LECT-DISC	R	1-3	TUWTH	111	G H	JONES

COURSES FOR GRADUATES

SOC 440 POLITICAL SOCIOLOGY.
PREREQUISITE: SOC. 387, CONCURRENT REGISTRATION IN SOC. 482, MASTER DEGREE STANDING, AND CONSENT OF INSTRUCTOR.
1 UNIT

17532	LECT-DISC		ARR	SOUTHWOOD AND VAN ES

SOC 477 SEMINAR ON COMMUNITY ORGANIZATION.
SAME AS R. SOC. 477.
PREREQUISITE: SOC. 275; OR CONSENT OF INSTRUCTOR.
1 UNIT
FIRST FOUR WEEKS.

17541	LECT-DISC	B	9-12	MTUWTH	405	M H	SCHWEITZER

SOC 482 RECENT DEVELOPMENTS IN SOCIOLOGY.
PREREQUISITE: SOC. 387, CONCURRENT REGISTRATION IN SOC. 440, MASTER DEGREE STANDING, AND CONSENT OF INSTRUCTOR.
*STUDENTS MAY ACCUMULATE TWO UNITS.
* 1 UNIT

17559	LECT-DISC		ARR	SOUTHWOOD AND VAN ES

SOC 490 INDIVIDUAL TOPICS IN SOCIOLOGY.
1/2 TO 2 UNITS

17567	CONF	A	ARR	STAFF

SOC 499 THESIS RESEARCH.
0 TO 2 UNITS
*SECTION B IS FOR DOCTORS THESIS.

17575	CONF	A	ARR	STAFF
17583	CONF	*B	ARR	STAFF

DEPARTMENT OFFICE 224 L H

MAJOR: TWENTY-FOUR HOURS, EXCLUDING 101, 102, 103, 104, 115, AND INCLUDING 211, 212, 221, 222. A MINIMUM OF ONE COURSE MUST BE TAKEN FROM EACH OF THE FOLLOWING GROUPS: 1) SPANISH 241, 305, 306; 2) SPANISH 242, 307, 308; 3) SPANISH 309, 311, 314; 4) SPANISH 331, 332; 5) SPANISH 351, 352, LINGUISTICS 300, LINGUISTICS 302. AT LEAST TWO LITERATURE COURSES MUST BE TAKEN AT THE 300 LEVEL.

MINORS: TWENTY HOURS IN NOT MORE THAN TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: EDUCATION, ENGLISH (EXCLUDING RHET. 101 AND 102), FRENCH, GERMAN, GREEK, HISTORY, ITALIAN, LATIN, LATIN-AMERICAN STUDIES, LIBRARY SCIENCE, MEDIEVAL CIVILIZATION STUDIES, PHILOSOPHY, PORTUGUESE, AND RUSSIAN.

COURSES FOR UNDERGRADUATES

SPAN 101 ELEMENTARY SPANISH, I.
NO CREDIT TOWARD GRADUATION IS GIVEN FOR SPAN. 101 WITHOUT SPAN. 102.
4 HOURS
ALL STUDENTS IN THIS COURSE ARE REQUIRED TO REGISTER FOR TWO HOURS PER WEEK IN THE LANGUAGE LABORATORY, 202 LINCOLN HALL.

17591	LECT-DISC		8-10	MTUWTH	118	L H	
17604	LAB	M9	11-1130	MTUWTH	202	L H	
17612	LAB	M17	3-330	MTUWTH	202	L H	

SPAN 102 ELEMENTARY SPANISH, II.
PREREQUISITE: SPAN. 101 OR ONE YEAR OF HIGH SCHOOL SPANISH.
4 HOURS
ALL STUDENTS IN THIS COURSE ARE REQUIRED TO REGISTER FOR TWO HOURS PER WEEK IN THE LANGUAGE LABORATORY, 202 LINCOLN HALL

17621	LECT-DISC		3-5	MTUWTH	27	PSYCH BLDG	
17639	LAB	M10	1130-12	MTUWTH	202	L H	
17647	LAB	M16	230-3	MTUWTH	202	L H	

SPAN 103 INTERMEDIATE SPANISH, I.
PREREQUISITE: SPAN. 102 OR TWO YEARS OF HIGH SCHOOL SPANISH.
4 HOURS
ALL STUDENTS IN THIS COURSE ARE REQUIRED TO REGISTER FOR TWO HOURS PER WEEK IN THE LANGUAGE LABORATORY, 202 LINCOLN HALL.

17655	LECT-DISC		10-12	MTUWTH	315	G H	OYARZUN
17663	LAB	M13	1-130	MTUWTH	202	L H	
17671	LAB	M17	3-330	MTUWTH	202	L H	

SPAN 104 INTERMEDIATE SPANISH, II.
PREREQUISITE: SPAN. 103 OR THREE YEARS OF HIGH SCHOOL SPANISH.
4 HOURS

17680	LECT-DISC		8-10	MTUWTH	27	PSYCH BLDG	MAHARG

COURSES FOR ADVANCED UNDERGRADUATES

SPAN 211 INTERMEDIATE COMPOSITION AND CONVERSATION, I.
REQUIRED FOR TEACHER-TRAINING MAJORS IN SPANISH.
PREREQUISITE: SPAN. 104 OR FOUR YEARS OF HIGH SCHOOL SPANISH.
3 HOURS

17698	LECT-DISC		8	F	315	G H	
			9	MTUWTHF	315	G H	

SPAN 212 INTERMEDIATE COMPOSITION AND CONVERSATION, II.
REQUIRED FOR TEACHER-TRAINING MAJORS IN SPANISH.
PREREQUISITE: SPAN. 211 OR EQUIVALENT.
3 HOURS

17701	LECT-DISC		8	F	176	L H	OYARZUN
			9	MTUWTHF	176	L H	

SPAN 213 ADVANCED COMPOSITION AND CONVERSATION, I.
PREREQUISITE: SPAN. 212 OR EQUIVALENT.
3 HOURS

17719	LECT-DISC		8	F	176	L H	OYARZUN
			9	MTUWTHF	176	L H	

SPAN 214 ADVANCED COMPOSITION AND CONVERSATION, II.
PREREQUISITE: SPAN. 213 OR EQUIVALENT.
3 HOURS

17727	LECT-DISC	8	F	176	L H		OYARZUN
		9	MTUWTHF	176	L H		

SPAN 221 SPANISH DRAMA AND POETRY OF THE TWENTIETH CENTURY.
PREREQUISITE: SPAN. 104 OR FOUR YEARS OF HIGH SCHOOL SPANISH.
3 HOURS

17735	LECT-DISC	10	MTUWTHF	27	PSYCH BLDG		MAHARG
		11	F	27	PSYCH BLDG		

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

NOTE: ALL ADVANCED COURSES IN SPANISH UNLESS OTHERWISE NOTED HAVE THE FOLLOWING PREREQUISITE: SPAN. 222 OR EQUIVALENT.

SPAN 307 SPANISH-AMERICAN LITERATURE TO 1888.
PREREQUISITE: SPAN. 222 OR EQUIVALENT.
3 HOURS OR 1/2 UNIT

17743	LECT-DISC	1	MTUWTHF	315	G H		LEAL
		2	F	315	G H		

SPAN 309 INTRODUCTION TO MEDIEVAL SPANISH LITERATURE.
PREREQUISITE: ONE OF SPAN. 305, 306, 307 OR 308, OR EQUIVALENT.
2 HOURS OR 1/2 UNIT

17751	LECT-DISC	3	MTUWTH	113	G H		BALDWIN

SPAN 314 SPANISH DRAMA AND POETRY OF THE GOLDEN AGE.
PREREQUISITE: SPAN. 305, 306, 307, OR 308, OR EQUIVALENT.
2 HOURS OR 1/2 UNIT

17760	LECT-DISC	12	MTUWTH	113	G H		PORQUERAS

SPAN 331 LA CULTURA HISPANICA: ESPANA.
PREREQUISITE: SPAN. 222 OR EQUIVALENT.
2 HOURS OR 1/2 UNIT

17778	LECT-DISC	2	MTUWTH	113	G H		MORINIGO

SPAN 351 PHONETICS.
REQUIRED FOR TEACHER-TRAINING MAJORS IN SPANISH.
PREREQUISITE: SPAN. 222 OR EQUIVALENT.
2 HOURS OR 1/2 UNIT

17786	LECT-DISC	4	MTUWTH	113	G H		BALDWIN

SPAN 352 SYNTAX.
REQUIRED FOR TEACHER-TRAINING MAJORS IN SPANISH.
PREREQUISITE: SPAN. 222 OR EQUIVALENT.
2 HOURS OR 1/2 UNIT

17794	LECT-DISC	10	MTUWTH	113	G H		SHOEMAKER

SPAN 382 LANGUAGE LABORATORY TECHNIQUES.
SAME AS FR., GER., AND SLAV. 382.
PREREQUISITE: 3 YEARS OF MODERN FOREIGN LANGUAGE AT THE COLLEGE LEVEL, OR THE EQUIVALENT.
2 HOURS OR 1/2 UNIT

17807	LECT-DISC	10	MTU THF	236	L H		NACHTMANN

COURSES FOR GRADUATES

SPAN 400 BEGINNING SPANISH FOR GRADUATE STUDENTS.
4 HOURS

17815	LECT-DISC	8-10	MTUWTH	217	G H		

SPAN 417 RENAISSANCE AND BAROQUE DRAMA IN SPAIN.
PREREQUISITE: SPAN. 311 AND 314, OR EQUIVALENT.
1 UNIT

17823	LECT-DISC	11	MTUWTH	113	G H		PORQUERAS

SPAN 419 CERVANTES.
PREREQUISITE: SPAN. 311 AND 314, OR EQUIVALENT.
1 UNIT

17831	LECT-DISC	1	MTUWTH	113	G H	MORINIGO

SPAN 421 MODERN SPANISH NOVEL AND ESSAY.
1 UNIT

17840	LECT-DISC	9	MTUWTH	113	G H	SHOEMAKER

SPAN 431 SPANISH-AMERICAN POETRY: MIDDLE AMERICA.
PREREQUISITE: SPAN. 307, 308, AND 310, OR EQUIVALENT.
1 UNIT

17858	LECT-DISC	9	MTUWTH	148	ADMIN	FORSTER

SPAN 438 SPANISH-AMERICAN ESSAY.
PREREQUISITE: SPAN. 307, 308, OR 310.
1 UNIT

17866	LECT-DISC	2	MTUWTH	315	G H	LEAL

SPAN 454 OLD SPANISH.
1 UNIT

17874	LECT-DISC	10	MTUWTH	429	LIB	KAHANE

SPAN 491 SPECIAL TOPICS IN SPANISH.
1/2 OR 1 UNIT

17882	CONF	ARR				STAFF

SPAN 499 THESIS RESEARCH.
0 TO 2 1/2 UNITS

17891	CONF	ARR				FORSTER KAHANE LEAL, MORINIGO PORQUERAS SHOEMAKER

SPECIAL EDUCATION

DEPARTMENT OFFICE 210 EDUC

COURSES FOR UNDERGRADUATES

SP ED 117 EXCEPTIONAL CHILDREN.
PREREQUISITE: SOPHOMORE STANDING AND/OR PSYCH. 100.
3 HOURS

17903	LECT-DISC	10-12	TUWTH	122	D K H	STAFF

SP ED 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS

17911	CONF	ARR		210	EDUC	STAFF

COURSES FOR ADVANCED UNDERGRADUATES

SP ED 249 INDEPENDENT STUDY.
PREREQUISITE: UPPER CLASSMAN, UPPER 5 PER CENT OF CLASS IN GRADE POINT AVERAGE, CONSENT OF ADVISER AND STAFF MEMBER WHO SUPERVISES THE WORK.
2 HOURS

17920	CONF	ARR		210	EDUC	STAFF

SP ED 291 THESIS.
PREREQUISITE: SENIOR STANDING.
2 HOURS

17938	CONF	ARR		210	EDUC	STAFF

SP ED 292 THESIS.
PREREQUISITE: SENIOR STANDING.
2 HOURS

17946	CONF	ARR		210	EDUC	STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

SP ED 318 WORKSHOP AND LABORATORY IN EDUCATION OF EXCEPTIONAL CHILDREN.
PREREQUISITE: CONSENT OF INSTRUCTOR.
4 TO 8 HOURS, OR 1 TO 2 UNITS
*SECTION I - INTERNS IN DISSEMINATION ONLY.

17954	LECT-DISC *I	ARR		907	W NEVADA	SIMMONS

SP ED 321 EDUCATION OF DISTURBED AND CONDUCT-PROBLEM CHILDREN.
PREREQUISITE: SP. ED. 117 OR EQUIVALENT AND EDPSY. 236, OR EQUIVALENT.
3 HOURS, OR 1/2 TO 1 UNIT
*FIRST FOUR WEEKS ONLY.

17962	LECT-DISC	*1-3	TUWTHF	389	EDUC	SCHULTZ

SP ED 322 PSYCHOLOGY AND EDUCATION OF THE MENTALLY HANDICAPPED, I.
PREREQUISITE: CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT

17971	LECT-DISC	10-12	TUWTH	433	ARMORY	CLARK

SP ED 324 MENTAL AND EDUCATIONAL MEASUREMENT OF EXCEPTIONAL CHILDREN.
PREREQUISITE: SP. ED. 117, OR CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 OR 1 UNIT

17989	LECT-DISC	1-3	TUWTHF	432	ARMORY	SALVIA

COURSES FOR GRADUATES

SP ED 417 PSYCHO-EDUCATIONAL PROBLEMS OF EXCEPTIONAL CHILDREN.
PREREQUISITE: SIXTEEN HOURS OF PSYCHOLOGY AND/OR EDUCATION, OR CONSENT OF INSTRUCTOR.
1 UNIT

17997	LECT-DISC	10	TUWTHF	207	G H	SALVIA

SP ED 421 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION.
PREREQUISITE: SP. ED. 417, ED. AD. 460, AND CONSENT OF INSTRUCTOR.
FIELD TRIPS.
1 UNIT

18001	LECT-DISC	ARR		210	EDUC	KARNES

SP ED 449 INDEPENDENT STUDY.
PREREQUISITE: APPROVAL OF STUDY OUTLINE BY ADVISER AND THE DEPARTMENT CHAIRMAN PRIOR TO ENROLLMENT.
*MAY BE REPEATED FOR A MAXIMUM OF TWO UNITS, OR MORE BY SPECIAL CONSENT OF THE DEAN.
*1/2 OR 1 UNIT

18010	LECT-DISC	ARR		210	EDUC	STAFF

SP ED 456 PROBLEMS AND TRENDS IN SPECIAL EDUCATION.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 TO 2 UNITS
*SECTION A2, SECONDARY WORK-STUDY PROGRAMS FOR EDUCATIONALLY AND MENTALLY HANDICAPPED.
*SECTION B, LEARNING DISABILITIES (CONSENT OF INSTRUCTOR ONLY).
*SECTION G, PROBLEMS AND TRENDS IN SPECIAL EDUCATION.

18028	LECT-DISC *A2	8	TUWTHF	313	G H	CLARK
18036	LECT-DISC *B	ARR			1005 W NEV	CHALFANT
18044	LECT-DISC *G	ARR		COL WOLFE SCHOOL		TESKA

SP ED 459 WORKSHOP IN CURRICULUM DEVELOPMENT.
1 TO 2 UNITS
*SECTION E, EMOTIONALLY DISTURBED.
*SECTION G, CULTURALLY DISADVANTAGED.

18052	LECT-DISC *E	9-11	TU TH	313	G H	SCHULTZ
18061	LECT-DISC *G	ARR		COL WOLFE SCHOOL		KARNES

SP ED 490 SEMINAR FOR ADVANCED STUDENTS OF EDUCATION.
OPEN ONLY TO PERSONS WHO HAVE BEEN ADMITTED FOR DOCTORAL STUDY.
1 TO 2 UNITS

18079	CONF	ARR	210	EDUC	STAFF

SP ED 499 THESIS RESEARCH.
0 TO 2 1/2 UNITS

18087	CONF	ARR	210	EDUC	STAFF

SPEECH

DEPARTMENT OFFICE 133 L H

MAJOR: TWENTY HOURS IN SPEECH IN ADDITION TO SPCH. 101, 105, AND 141. AT LEAST FIVE OF THE TWENTY HOURS MUST BE IN COURSES NUMBERED 300 OR HIGHER; SPCH. 301 MUST BE INCLUDED. IN DECLARING A MAJOR IN SPEECH THE STUDENT MAY CHOOSE ONE OF THESE AREAS FOR EMPHASIS: GENERAL SPEECH, PUBLIC ADDRESS, INTERPRETATION, THEATRE ART, SPEECH SCIENCE AND PHONETICS, SPEECH CORRECTION AND AUDIOLOGY.
THE STUDENT SHOULD REPORT TO 133 LINCOLN HALL TO BE ASSIGNED AN AREA ADVISER WITH WHOM HE MAY CONFER CONCERNING REQUIRED AND RECOMMENDED COURSES.

MINORS: TWENTY HOURS IN ONE OR TWO COLLEGE OF LIBERAL ARTS AND SCIENCES DEPARTMENTS OR IN INTERDEPARTMENTAL PROGRAMS APPROVED BY THE COLLEGE. MINOR PROGRAMS OUTSIDE THE COLLEGE OF LIBERAL ARTS AND SCIENCES MAY BE ARRANGED WITH THE APPROVAL OF THE STUDENT'S MAJOR ADVISER AND HIS DEPARTMENT HEAD. IF TWO MINOR SUBJECTS ARE CHOSEN, AT LEAST EIGHT HOURS MUST BE INCLUDED IN EACH. A MINOR PROGRAM IN ENGLISH MAY NOT INCLUDE MORE THAN THREE HOURS IN LITERATURE COURSES OPEN TO FRESHMEN AND SOPHOMORES AND MAY NOT INCLUDE RHET. 101, 102, 151, 271, AND 272. NO LANGUAGE COURSES MAY SATISFY THE MINOR REQUIREMENTS IF THEY ARE EXCLUDED FROM THE MAJORS OF THE LANGUAGE DEPARTMENTS.

NOTE: TWO TEACHER-TRAINING CURRICULA ARE OFFERED IN SPEECH. SEE THE CURRICULUM PREPARATORY TO SPEECH CORRECTION WORK AND THE CURRICULUM PREPARATORY TO THE TEACHING OF SPEECH.

LIMITED PARTICIPATION AS A SUBJECT IN LABORATORY OR CLASSROOM EXPERIMENTS MAY BE INCLUDED AS A PARTIAL REQUIREMENT IN 100 AND 200 LEVEL COURSES.

COURSES FOR UNDERGRADUATES

SPCH 101 PRINCIPLES OF EFFECTIVE SPEAKING.
3 HOURS

18095	LECT-DISC	A	8	MTUWTH	333	ARMORY
		A	8-10	F	333	ARMORY
18108	LECT-DISC	B	9-11	M W F	255	ARMORY
18116	LECT-DISC	C	9-11	M	333	ARMORY
		C	10	TUWTHF	333	ARMORY
18124	LECT-DISC	D	11-1	M	333	ARMORY
		D	11	TUWTHF	333	ARMORY
18132	LECT-DISC	E	1-3	M W F	255	ARMORY

SPCH 111 VERBAL COMMUNICATION.
4 HOURS

18141	LECT-DISC	8-10	MTUWTH	184	L H

SPCH 112 VERBAL COMMUNICATION.
PREREQUISITE: SPCH. 111.
4 HOURS

18159	LECT-DISC	10-12	MTUWTH	184	L H

SPCH 141 ORAL INTERPRETATION.
3 HOURS

18167	LECT-DISC	9	MTUWTH	262	ARMORY
		9-11	F	262	ARMORY

SPCH 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS
18175 CONF ARR

COURSES FOR ADVANCED UNDERGRADUATES

SPCH 203 DRAMATICS FOR TEACHERS.
3 HOURS
18183 LECT-DISC 9-11 M W F DRAMA RHRSL KRAN WORKS

SPCH 208 SPEECH AND HEARING PROBLEMS IN THE CLASSROOM.
PREREQUISITE: JUNIOR STANDING.
3 HOURS
18191 LECT-DISC 10-12 TUWTH 186 L H ERICKSON

SPCH 291 HONORS COURSE.
PREREQUISITE: SENIOR STANDING, A GRADE-POINT AVERAGE OF 4.0 OR CONSENT OF HEAD OF DEPARTMENT.
*STUDENTS MAY ACCUMULATE 4 HOURS.
*2 HOURS
18204 CONF ARR

SPCH 293 INDIVIDUAL TOPICS.
PREREQUISITE: TEN HOURS OF SPEECH, GRADE-POINT AVERAGE OF 3.75, CONSENT OF HEAD OF DEPARTMENT.
*STUDENTS MAY ACCUMULATE 4 HOURS.
*2 HOURS
18212 CONF ARR

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

SPCH 312 AMERICAN PUBLIC ADDRESS.
3 HOURS, OR 1/2 OR 1 UNIT
18221 LECT-DISC 1-3 M W F 121 L H ARMOLD

SPCH 313 INTERPERSONAL COMMUNICATION: DISCUSSION AND INTERVIEW.
PREREQUISITE: JUNIOR STANDING OR CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 OR 1 UNIT
18239 LECT-DISC 8-10 M W F 121 L H INCE

SPCH 342 ORAL INTERPRETATION OF POETRY.
PREREQUISITE: SPCH. 141.
3 HOURS, OR 1/2 OR 1 UNIT
18247 LECT-DISC 11-1 M 262 ARMORY SLOAN
11 TUWTHF 262 ARMORY

SPCH 378 HEARING SCIENCE.
PREREQUISITE: SPCH. 375.
3 HOURS OR 1/2 UNIT
18255 LECT-DISC ARR DANILOFF

SPCH 389 PSYCHOLOGICAL APPRAISAL IN SPEECH PATHOLOGY AND AUDIOLOGY.
PREREQUISITE: SPCH. 383 AND 385, A COURSE IN TESTS AND MEASUREMENT, OR CONSENT OF INSTRUCTOR.
3 HOURS OR 1/2 UNIT
18263 LECT-DISC ARR DEMARCO

COURSES FOR GRADUATES

SPCH 400 SEMINAR IN DRAMATIC FORM AND STRUCTURE.
SAME AS THEAT. 400.
PREREQUISITE: SPCH. 361 AND 362, OR EQUIVALENT, AND CONSENT OF INSTRUCTOR.
1 UNIT
18271 LECT-DISC 1-3 TU TH ENSEMBLE A KRAN AULETTA

SPCH 403 SEMINAR FOR TEACHERS OF SPEECH.
1 UNIT
18280 LECT-DISC ARR BURNS

SPCH 430 CONTEMPORARY THEORIES OF ORAL COMMUNICATION.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

18298	LECT-DISC		ARR				NEBERGALL

SPCH 438 SEMINAR IN RHETORICAL THEORY.
*MAY BE REPEATED UP TO A TOTAL OF 4 UNITS.
*1 UNIT

18301	LECT-DISC		ARR				BROADRICK

SPCH 443 SEMINAR IN THE ORAL INTERPRETATION OF INDIVIDUAL LITERARY STYLES.
PREREQUISITE: GRADUATE STANDING; SPCH. 344.
*COURSE MAY BE REPEATED FOR A MAXIMUM OF TWO UNITS.
*1 UNIT

18319	LECT-DISC		ARR				MACLAY

SPCH 452 PROBLEMS IN PLAY PRODUCTION IN THE EDUCATIONAL THEATRE.
SAME AS THEAT. 452.
1 UNIT

18327	LECT-DISC		10-12	TU TH	CONF ROOM KRAN		BEHRINGER

SPCH 466 THE AMERICAN THEATRE SINCE 1900.
SAME AS THEAT. 466.
1 UNIT

18335	LECT-DISC		9-11	M W F	CONF ROOM KRAN		ARBENZ

SPCH 481 SEMINAR IN NEUROPATHOLOGIES OF SPEECH AND LANGUAGE.
PREREQUISITE: CONSENT OF INSTRUCTOR.
*MAY BE REPEATED FOR A MAXIMUM OF THREE UNITS.
*1 UNIT

18343	LECT-DISC	B	3-5	M W	510 E CHALMERS		SIMPSON

SPCH 483 PSYCHOLOGY OF SPEECH AND HEARING DISORDERS, I.
SAME AS PSYCH. 483.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

18351	LECT-DISC		10-12	TU TH	324 I H		DEMARCO

SPCH 486 ADVANCED CLINICAL TECHNIQUES IN SPEECH AND HEARING.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/2 TO 4 UNITS

18360	LECT-DISC	B	ARR				JOHNSON AND
18378	LECT-DISC	C	ARR				STARK
18386	LECT-DISC	D	ARR				

SPCH 488 DIAGNOSTIC PROCEDURES IN PATHOLOGIES OF SPEECH AND LANGUAGE.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT

18394	LECT-DISC		1-4	TU TH	333 ARMORY		SANDERS

SPCH 489 SEMINAR IN OROFACIAL AND LARYNGEAL PATHOLOGIES OF SPEECH.
PREREQUISITE: CONSENT OF INSTRUCTOR.
*MAY BE REPEATED FOR A MAXIMUM OF TWO UNITS.
*1 UNIT

18407	LECT-DISC	A	8-10	M W	510 E CHALMERS		SIMPSON
18415	LECT-DISC	B	10-12	M W	106 SP CLINIC		HUNTER

SPCH 491 SEMINAR IN HEARING DISORDERS.
PREREQUISITE: SPCH. 391.
*MAY BE REPEATED FOR A MAXIMUM OF THREE UNITS.
*1 UNIT

18423	LECT-DISC	B	8-12	F	324 I H		NASCA
18431	LECT-DISC	C	1-3	M W	324 I H		STARK

SPCH 495 SPECIAL PROBLEMS.
PREREQUISITE: CONSENT OF THE HEAD OF THE DEPARTMENT.
*OPEN TO MASTERS CANDIDATES FOR ONE UNIT, TO DOCTORS CANDIDATES FOR ONE OR TWO UNITS.
*1 OR 2 UNITS

18440	CONF	A	ARR				STAFF
18458	CONF	B	ARR				SILVERMAN
18466	CONF	C	ARR				DANILOFF

SPCH 499 THESIS RESEARCH.
0 TO 2 UNITS
INSTRUCTORS: BEHRINGER, BROADRICK, BURNS, CLARK, DANILOFF
HEWITT, INCE, MACLAY, MURPHY, NEBERGALL, NICHOLS
ONEILL, SCOTT, SHATTUCK, SHRINER, SILVERMAN
SLOAN, STARK, WENZEL, ZEMLIN

18474	CONF	ARR				

THEATRE

DEPARTMENT OFFICE 4-122 KRANNERT CENTER

COURSES FOR UNDERGRADUATES

THEAT 100 PRACTICUM, I.
PREREQUISITE: CONSENT OF INSTRUCTOR FOR NON-THEATRE MAJORS.
1 TO 3 HOURS

18482	LAB	11	M W	CONF ROOM KRAN	BRADY

THEAT 141 MAKEUP FOR THE THEATRE, I.
2 HOURS

18491	LAB-DISC	1-3	TU TH	PLAYHS DRES KRAN	FRANKLIN-WHITE
		3-5	M W	PLAYHS DRES KRAN	FRANKLIN-WHITE

COURSES FOR ADVANCED UNDERGRADUATES

THEAT 291 INDIVIDUAL TOPICS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
2 HOURS

18503	CONF	ARR		KRAN PERF	STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

THEAT 300 PRACTICUM, II.
PREREQUISITE: FOR NON-THEATRE MAJORS; CONSENT OF INSTRUCTOR.
*MAY BE REPEATED TO A TOTAL OF 12 HOURS OR 2 UNITS
*1 TO 3 HOURS, OR 1/4 TO 1/2 UNIT

18511	LAB	9	TU TH	DRAMA RHRSL KRAN	LLEWELLYN

THEAT 353 CREATIVE DRAMATICS FOR CHILDREN.
PREREQUISITE: CONSENT OF INSTRUCTOR.
3 HOURS, OR 1/2 OR 1 UNIT

18520	LECT-DISC	1-3	M W F	DRAMA RHRSL KRAN	TYMCHYSHYN

COURSES FOR GRADUATES

THEAT 400 SEMINAR IN DRAMATIC FORM AND STRUCTURE.
SAME AS SPCH. 400.
PREREQUISITE: THEAT. 361 AND 362, OR EQUIVALENT, AND CONSENT OF INSTRUCTOR.
1 UNIT

18538	LECT-DISC	1-3	TU TH	ENSEMBLE A KRAN	AULETTA

THEAT 452 PROBLEMS IN PLAY PRODUCTION IN THE EDUCATIONAL THEATRE.
SAME AS SPCH. 452.
1 UNIT

18546	LECT-DISC	10-12	TU TH	CONF ROOM KRAN	BEHRINGER

THEAT 466 THE AMERICAN THEATRE SINCE 1900.
SAME AS SPCH. 466.
1 UNIT

18554	LECT-DISC	9-11	M W F	CONF ROOM KRAN	ARBENZ

THEAT 491 SPECIAL PROBLEMS.
1/2 TO 2 UNITS

18562	CONF	ARR			STAFF

THEORETICAL AND APPLIED MECHANICS

DEPARTMENT OFFICE 212 T L

COURSES FOR UNDERGRADUATES

T A M 154 ANALYTICAL MECHANICS--STATICS AND DYNAMICS.
PREREQUISITE: PHYCS. 101 OR 106. REGISTRATION IN MATH. 142 OR 143.
4 HOURS

18571	LECT-DISC	A	8-10	MTU THF	3068	T L

T A M 199 UNDERGRADUATE OPEN SEMINAR.
*MAY BE REPEATED.
*0 TO 9 HOURS

18589	CONF		ARR			

COURSES FOR ADVANCED UNDERGRADUATES

T A M 221 ELEMENTARY MECHANICS OF DEFORMABLE BODIES.
PREREQUISITE: T. A. M. 150 OR EQUIVALENT. MATH. 142 OR 143.
3 HOURS

18597	LECT-DISC	C	10	MTUWTHFS	252	E E B

T A M 235 FLUID MECHANICS.
PREREQUISITE: T. A. M. 211 OR 212.
4 HOURS

18600	LECT-DISC	8	9	MTUWTHFS	305	T L
	LAB	8	3-5	TU TH	126	T L

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

T A M 311 MECHANICAL VIBRATIONS.
PREREQUISITE: T. A. M. 154 OR 156 OR 211 OR 212 AND 221.
*CREDIT IS NOT GIVEN FOR BOTH C. E. 374 AND T. A. M. 311.
*3 HOURS, OR 1/2 TO 1 UNIT

18618	LECT-DISC	D	11	MTUWTHFS	252	E E B

T A M 321 ADVANCED MECHANICS OF DEFORMABLE BODIES.
PREREQUISITE: T. A. M. 221 AND 223 OR 224.
3 HOURS, OR 1/2 TO 1 UNIT

18626	LECT-DISC	A	8	MTUWTHFS	305	T L

T A M 326 EXPERIMENTAL STRESS ANALYSIS.
PREREQUISITE: T. A. M. 150, 211, 212, 221, AND 223 OR 224.
3 HOURS, OR 1/2 TO 1 UNIT

18634	LAB-DISC	C	10-12	MTU THF	302C	T L

T A M 346 DIMENSIONAL ANALYSIS AND THEORY OF MODELS.
3 HOURS, OR 1/2 OR 1 UNIT

18642	LECT-DISC	8	9	MTUWTHFS	250	E E 8

COURSES FOR GRADUATES

T A M 441 APPLIED ANALYSIS IN ENGINEERING, I.
PREREQUISITE: MATH. 143.
1 UNIT

18651	LECT-DISC	C	10	MTUWTHFS	250	E E 8

T A M 493 ADVANCED INDEPENDENT STUDY--SPECIAL RESEARCH.
1/2 TO 2 UNITS

18669	CONF	X	ARR	STAFF

T A M 499 THESIS RESEARCH.
0 TO 2 UNITS

18677	CONF	X	ARR	STAFF

URBAN PLANNING

DEPARTMENT OFFICE 208 M H

COURSES FOR ADVANCED UNDERGRADUATES

U P 260 SPECIAL PROBLEMS.
PREREQUISITE: CONSENT OF HEAD OF DEPARTMENT.
2 TO 6 HOURS
18685 CONF ARR STAFF

COURSES FOR GRADUATES

U P 488 URBAN PLANNING RESEARCH.
PREREQUISITE: U. P. 171 OR CONSENT OF INSTRUCTOR.
1/2 TO 2 UNITS
18693 CONF ARR STAFF

U P 499 THESIS RESEARCH.
PREREQUISITE: GRADUATE STANDING IN URBAN PLANNING.
1/2 TO 2 UNITS
18706 CONF ARR STAFF

VETERINARY MEDICAL SCIENCE

DEPARTMENT OFFICE 131 V M

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

V M S 392 SPECIAL PROBLEMS.
PREREQUISITE: REGISTRATION IN VETERINARY CURRICULUM WITH GRADE POINT AVERAGE OF 3.5 OR ABOVE.
*STUDENTS MAY ACCUMULATE ONE UNIT.
*1/2 UNIT
18714 LAB ARR STAFF

COURSES FOR GRADUATES

V M S 408 PRINCIPLES OF HEMATOLOGY.
PREREQUISITE: V. M. S. 301 OR EQUIVALENT, OR CONSENT OF INSTRUCTOR.
1/2 UNIT
18722 LECT-DISC ARR ST CLAIR

V M S 416 EPIZOOTIOLOGY.
PREREQUISITE: V. P. H. 331, V. M. S. 332 OR EQUIVALENT, OR CONSENT OF INSTRUCTOR.
1 UNIT
18731 LECT ARR WOODS
LAB ARR

V M S 459 ADVANCED CORRELATIVE PATHOLOGY.
PREREQUISITE: V. M. S. 308, 335, 445, 450, OR EQUIVALENT; CONSENT OF INSTRUCTOR.
0 TO 1 1/2 UNITS
18749 LAB-DISC ARR SIMON

V M S 490 SEMINAR.
REQUIRED OF GRADUATE STUDENTS WHOSE MAJOR IS VETERINARY MEDICAL SCIENCE.
1/4 UNIT
18757 CONF 4 W 167 V M WOODS

V M S 492 SPECIAL PROBLEMS.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1/4 TO 1 UNIT
18765 LAB ARR STAFF

V M S 499 THESIS RESEARCH.
0 TO 2 UNITS
18773 LAB ARR STAFF

VOCATIONAL AND TECHNICAL EDUCATION

DEPARTMENT OFFICE 347A EDUCATION BUILDING

COURSES FOR UNDERGRADUATES

VOTEC 189 INDUSTRIAL PRACTICES.
PREREQUISITE: SOPHOMORE STANDING, ENROLLMENT IN INDUSTRIAL EDUCATION OPTIONS II AND III.
*STUDENTS MAY ACCUMULATE SEVENTEEN HOURS.
*2 OR 3 HOURS
TOTAL ACCUMULATED HOURS TO BE DETERMINED IN CONSULTATION WITH ADVISOR.
18781 CONF ARR TINKHAM

COURSES FOR ADVANCED UNDERGRADUATES

VOTEC 249 INDEPENDENT STUDY.
PREREQUISITE: UPPER CLASSMAN, UPPER 5 PER CENT OF CLASS IN GRADE POINT AVERAGE, CONSENT OF ADVISER AND STAFF MEMBER WHO SUPERVISES THE WORK.
2 HOURS
18790 CONF ARR STAFF

VOTEC 276 STUDENT TEACHING IN VOCATIONAL AGRICULTURE.
PREREQUISITE: HP. ED. 201 AND VOTEC. 240 OR CONSENT OF INSTRUCTOR AND CONCURRENT ENROLLMENT IN VOTEC. 277.
5 HOURS
MEETS SECOND FOUR WEEKS.

18802	LECT-DISC	8-10	MTUWTHF	33	EDUC	STAFF
	LAB	1-3	MTUWTHF	33	EDUC	STAFF

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

VOTEC 349 SPECIAL STUDY AND INVESTIGATION IN VOCATIONAL AND TECHNICAL EDUCATION.
PREREQUISITE: CONSENT OF INSTRUCTOR; DEMONSTRATED ABILITY TO PURSUE SPECIAL STUDY OR INVESTIGATION PROPOSED.
2 TO 4 HOURS, OR 1/2 TO 1 UNIT
*SECTION A IS FOR AGRICULTURE EDUCATION.
*SECTION B IS FOR BUSINESS EDUCATION (EIGHT WEEKS-FIRST FOUR WEEKS ON AN ARRANGE BASIS).
*SECTION C IS FOR ECONOMICS EDUCATION.
*SECTION D IS FOR INDUSTRIAL EDUCATION.
*SECTION E IS FOR EPDA FELLOWS.

18811	CONF	*A	ARR				STAFF
18829	CONF	*B	1-3	TUWTHF	28	EDUC	MAHAFFEY
18837	CONF	*C	ARR				STAFF
18845	CONF	*D	ARR				STAFF
18853	CONF	*E	ARR				STAFF

VOTEC 388 SPECIAL TECHNIQUES OF TEACHING VOCATIONAL INDUSTRIAL SUBJECTS.
PREREQUISITE: JUNIOR STANDING AND TEN HOURS OF UNDERGRADUATE CREDIT IN APPROPRIATE VOCATIONAL AND TECHNICAL EDUCATION COURSES.
4 HOURS OR 1 UNIT
18861 LECT-DISC 8 TUWTHF 38 EDUC CAMPBELL

COURSES FOR GRADUATES

VOTEC 442 JUNIOR COLLEGE.
1 UNIT
18870 LECT-DISC 9 TUWTHF 24 COM W STAFF

VOTEC 449 INDEPENDENT STUDY.
PREREQUISITE: APPROVAL OF STUDY OUTLINE BY ADVISER AND THE DEPARTMENT CHAIRMAN PRIOR TO ENROLLMENT.
*MAY BE REPEATED FOR A MAXIMUM OF TWO UNITS, OR MORE BY SPECIAL CONSENT OF THE DEAN.
*1/2 OR 1 UNIT
*SECTION A: AGRICULTURE.
*SECTION B: BUSINESS.
*SECTION C: HOME ECONOMICS.
*SECTION D: INDUSTRIAL EDUCATION.
*SECTION E: GENERAL VOTEC.

18888	CONF	*A	ARR				STAFF
18896	CONF	*B	ARR				STAFF
18909	CONF	*C	ARR				STAFF
18917	CONF	*D	ARR				STAFF
18925	CONF	*E	ARR				STAFF

VOTEC 450 EVALUATION IN HOME ECONOMICS EDUCATION.
1 UNIT
MEETS FIRST FOUR WEEKS.

18933	LECT-DISC	1-4	TUWTHF	22	EDUC	MATHER

VOTEC 451 SUPERVISION IN HOME ECONOMICS EDUCATION.
1 UNIT
MEETS SECOND FOUR WEEKS.

18941	LECT-DISC	8-10	TUWTHF	122	D K H	MATHER

VOTEC 456 PROBLEMS AND TRENDS IN SPECIALIZED FIELDS OF VOCATIONAL AND TECHNICAL EDUCATION.
1 UNIT
*SECTION A IS FOR VOCATIONAL TEACHERS OF DISADVANTAGED STUDENTS AND MEETS FIRST FOUR WEEKS.
*SECTION C IS FOR HOME ECONOMICS AND MEETS SECOND FOUR WEEKS (PROBLEMS AND TRENDS IN HOME ECONOMICS EDUCATION).
*SECTION D IS A WORKSHOP WITH FOCUS ON INTRODUCTION TO RESEARCH IN THE VOTEC FIELD. PRIMARILY FOR THOSE WHO WILL BE USERS OF RESEARCH (8 WEEKS).

18950	LECT-DISC *A	10-12	TUWTHF	33	EDUC	HEMP
18968	LECT-DISC *C	1-4	TUWTHF	25	EDUC	HORN
18976	LECT-DISC *D	1	TUWTHF	1	EDUC	BALDWIN

VOTEC 459 WORKSHOP IN CURRICULUM DEVELOPMENT.
1/2 TO 2 UNITS
SECTION A: FOR AGRICULTURAL EDUCATION. 1 UNIT, MEETS FIRST FOUR WEEKS.
SECTION B: FOR BUSINESS EDUCATION. PROBLEMS IN COOPERATIVE BUSINESS EDUCATION. 1 UNIT. THIS COURSE CONSISTS OF WORKSHOPS ON CAMPUS DURING THE FIRST FOUR WEEKS AND DIRECTED OCCUPATIONAL BUSINESS EXPERIENCE BETWEEN THE TWO WORKSHOPS. CLASS IS LIMITED TO 20 MEMBERS. WRITE FOR APPLICATION FORM FOR THE CLASS AND INFORMATION SHEET TO DR. ANNA MAHAFFEY, ROOM 346 EDUCATION BUILDING, UNIVERSITY OF ILLINOIS, URBANA, ILL. 61801.
SECTION C: FOR HOME ECONOMICS EDUCATION. MEETS FIRST FOUR WEEKS. WORKSHOP IN FOOD AND NUTRITION EDUCATION. 1 UNIT.
SECTION D: WORKSHOP FOR TEACHERS AND ADMINISTRATORS OF TECHNICAL EDUCATION PROGRAMS AT THE POST HIGH SCHOOL LEVEL, 1/2 UNIT. MEETS SECOND FOUR WEEKS.
SECTION E: CURRICULUM DEVELOPMENTS IN VOCATIONAL PROGRAMS IN HOME ECONOMICS EDUCATION. MEETS SECOND FOUR WEEKS.
SECTION F: FOR BUSINESS EDUCATION TEACHERS AND MEETS SECOND FOUR WEEKS. STUDY OF THE BASIC CONCEPTS OF OFFICE AUTOMATION, ITS NATURE, FUNCTIONS, PROBLEMS AND TRENDS, WITH PARTICULAR REFERENCE TO CURRICULUM DEVELOPMENTS AND TEACHING METHODS.
CONSENT OF INSTRUCTOR IS REQUIRED.

18984	LECT-DISC *A	3-5	TUWTHF	33	EDUC	WILLIAMS
18992	LECT-DISC *B	2-4	TUWTHF	25	EDUC	MAHAFFEY
19007	LECT-DISC *C	8-10	TUWTHF	25	EDUC	SPITZE
	*C	10	TUWTHF	22	EDUC	
19015	LECT-DISC *D	1-3	TUWTHF	389	EDUC	STAFF
19023	LECT-DISC *E	8-11	TUWTHF	25	EDUC	STAFF
19031	LECT-DISC F	10-12	TUWTHF	25	EDUC	MAHAFFEY

VOTEC 471 POLICY AND PROGRAM DEVELOPMENT FOR EDUCATION IN AGRICULTURE.
PREREQUISITE: VOTEC. 276 AND 277. OPEN TO SCHOOL ADMINISTRATORS AND EXTENSION EDUCATORS WITHOUT PREREQUISITES.
1/2 UNIT
MEETS FIRST FOUR WEEKS

19040	LECT-DISC	1-3	TUWTHF	28	EDUC	PHIPPS

VOTEC 473 VOCATIONAL EDUCATION IN AGRICULTURE FOR ADULTS.
PREREQUISITE: VOTEC. 276 AND 277 OR CONSENT OF INSTRUCTOR.
1/2 UNIT
MEETS FIRST FOUR WEEKS

19058	LECT-DISC	10-12	TUWTHF	28	EDUC	HEMP

VOTEC 474 SUPERVISED AGRICULTURAL EXPERIENCE IN AGRICULTURAL ATIONS PROGRAM.
PREREQUISITE: VOTEC. 276 AND 277 OR CONSENT OF INSTRUCTOR.
1/2 UNIT
MEETS FIRST FOUR WEEKS

19066	LECT-DISC	8-10	TUWTHF	33	EDUC	THOMAS

VOTEC 475 ORGANIZING AND TEACHING AGRICULTURE MECHANICS.
PREREQUISITE: VOTEC. 276 AND 277 OR CONSENT OF INSTRUCTOR.
1/2 UNIT
MEETS FIRST FOUR WEEKS

19074	LECT-DISC	3-5	TUWTHF	28	EDUC	STAFF

VOTEC 476 GUIDANCE IN AGRICULTURAL EDUCATION.
PREREQUISITE: VOTEC. 276 AND 277 OR CONSENT OF INSTRUCTOR.
1/2 UNIT
MEETS SECOND FOUR WEEKS

19082	LECT-DISC	10-12	TUWTHF	38	EDUC	WALKER

VOTEC 481 HISTORY AND BASIC CONCEPTS OF VOCATIONAL AND TECHNICAL EDUCATION.
1 UNIT
MEETS SECOND FOUR WEEKS

19091	LECT-DISC	9	TUWTHF	305	G H	CAMPBELL

VOTEC 488 CURRICULUM PROBLEMS AND TRENDS IN INDUSTRIAL EDUCATION.
PREREQUISITE: UNDERGRADUATE WORK IN VOCATIONAL AND TECHNICAL EDUCATION.
1 UNIT
MEETS SECOND FOUR WEEKS.

19103	LECT-DISC	10-12	TUWTHF	389	EDUC	STERN

VOTEC 489 ADMINISTRATION AND SUPERVISION OF VOCATIONAL AND TECHNICAL EDUCATION.
PREREQUISITE: CONSENT OF INSTRUCTOR.
1 UNIT
MEETS FIRST FOUR WEEKS.

19111	LECT-DISC	10-12	TUWTHF	389	EDUC	TOMLINSON

VOTEC 490 SEMINAR FOR ADVANCED STUDENTS OF EDUCATION.
OPEN ONLY TO PERSONS WHO HAVE COMPLETED THE PRELIMINARY EXAMINATION FOR THE DEGREES OF PH.D. OR ED.D.
1 TO 2 UNITS
*SECTION A IS FOR AGRICULTURAL EDUCATION.
*SECTION C IS FOR HOME ECONOMICS EDUCATION.
*SECTION D IS FOR INDUSTRIAL EDUCATION.

19120	CONF	*A	ARR				STAFF
19138	CONF	*C	ARR				STAFF
19146	CONF	*D	1-3	TU TH	20	COM W	BALDWIN

VOTEC 491 FIELD STUDY AND THESIS SEMINAR.
LIMITED TO STUDENTS WHO HAVE BEEN ADMITTED FOR DOCTORAL STUDY.
1 TO 2 UNITS
*SECTION A: AGRICULTURAL EDUCATION.
*SECTION C: HOME ECONOMICS.
*SECTION D: INDUSTRIAL EDUCATION.

19154	CONF	*A	ARR				STAFF
19162	CONF	*C	ARR				STAFF
19171	CONF	*D	ARR				STAFF

VOTEC 499 THESIS RESEARCH.
0 TO 2 1/2 UNITS
*SECTION A: AGRICULTURE.
*SECTION C: HOME ECONOMICS.
*SECTION D: INDUSTRIAL EDUCATION.

19189	CONF	*A	ARR				STAFF
19197	CONF	*C	ARR				STAFF
19200	CONF	*D	ARR				STAFF

DEPARTMENT OFFICE 287 MORRILL HALL

MAJOR: BIOL. 110 AND 111 AND TWENTY HOURS IN ZOOLOGY, EXCLUDING ZOOL. 101, 104, 106, 107, BIOL. 110, 111, 151, D G S 131 AND 132, AND BIOL. 101 AND 102 AT CHICAGO UNDERGRADUATE DIVISION. STUDENTS WHO HAVE CREDIT IN ZOOL. 104 MUST TAKE BOTANY 100 TO SATISFY THE ELEMENTARY SEQUENCE REQUIREMENT. AT LEAST ONE COURSE MUST BE TAKEN IN EACH OF THE FOLLOWING AREA-GROUPS OF COURSES: GENETICS AND DEVELOPMENT (ZOOL. 333, BIOL. 210, 211); CELLULAR AND PHYSIOLOGICAL ZOOLOGY (ZOOL. 312, 334, BIOL. 307 PHYSL. 301 AND 302 OR PHYSL. 303 AND 304); ECOLOGY AND BEHAVIOR (ZOOL. 340, 342, 343, 345, 346, 369 BIOL. 310); MORPHOLOGY AND SYSTEMATICS (ZOOL. 232, 304, 318, 320, 321, 335).
BIOL. 203, 204, 251, 351, AND ALL 200-, 300-, AND 400-LEVEL ZOOLOGY COURSES, EVEN IF NOT INCLUDED IN THE PRECEDING AREA LISTS, AUTOMATICALLY COUNT TOWARD THE TWENTY HOURS. ALSO REQUIRED ARE ONE YEAR OF PHYSICS, AT LEAST 3 SEMESTERS OF CHEMISTRY INCLUDING ORGANIC, AND MATHEMATICS THROUGH ANALYTIC GEOMETRY WITH CALCULUS HIGHLY RECOMMENDED. ALSO HIGHLY RECOMMENDED IS ONE COURSE IN GENERAL BOTANY, MICROBIOLOGY, OR GEOLOGY.

MINORS: TWENTY HOURS IN ONE OR TWO OF THE FOLLOWING SUBJECTS, WITH AT LEAST EIGHT HOURS IN EACH IF TWO ARE CHOSEN: ANIMAL SCIENCE (TO BE CHOSEN FROM COURSES 100, 110, 230, 305 OR 330) ANTHROPOLOGY, BOTANY, CHEMISTRY, EDUCATION, ENTOMOLOGY, GEOGRAPHY, GEOLOGY, MATHEMATICS, MICROBIOLOGY, PHYSICS, PHYSIOLOGY, AND PSYCHOLOGY.

NOTE: BIOL. 110-111 OR BIOL. 151-251 OR EQUIVALENT IS THE GENERAL BIOLOGICAL PREREQUISITE FOR MOST 200 AND 300 LEVEL COURSES. AN APPROVED GENERAL EDUCATION SEQUENCE IN BIOLOGY WILL GENERALLY BE CONSIDERED AN EQUIVALENT.

COURSES FOR UNDERGRADUATES

ZOOL 104 ELEMENTARY ZOOLOGY.
4 HOURS

19218	LECT		8	MTUWTH	228	N H 8		SWANSON
19226	LAB-DISC	A	9-12	M W	338	N H 8		
19234	LAB-DISC	B	9-12	TU TH	338	N H 8		
19242	LAB-DISC	C	1-4	M W	338	N H 8		

ZOOL 106 PRINCIPLES OF HEREDITY.
PREREQUISITE: SOPHOMORE STANDING.
3 HOURS
*ONE ADDITIONAL HOUR TO BE ARRANGED.

19251	LECT		*11	MTUWTHF	136	BUR HALL	BROWN

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

ZOOL 321 PARASITOLOGY.
PREREQUISITE: BIOL. 110-111 OR BIOL. 151-251 OR EQUIVALENT.
5 HOURS OR 1 UNIT

19269	LECT		11	MTUWTH	326	N H 8	KRUIDENIER
	LAB		8-11	MTUWTH	326	N H B	

ZOOL 342 WILDLIFE MANAGEMENT AND CONSERVATION.
PREREQUISITE: BIOL. 110-111 OR BIOL. 151-251 OR EQUIVALENT.
3 HOURS OR 1/2 UNIT

19277	LECT		9	MTUWTH	302	VIVARIUM	SHOEMAKER
	LAB		8-12	FS	1028	VIVARIUM	

ZOOL 499 THESIS RESEARCH.
0 TO 2 UNITS
ANATOMY, PHYSIOLOGY, PHYLOGENY AND GENERAL CLASSIFICATION OF VERTEBRATES:

VERTEBRATE ANATOMY	
FUNCTIONAL ANATOMY	FRAZZETTA
VERTEBRATE PHYSIOLOGY	PROSSER, HEATH

ANATOMY, PHYSIOLOGY, PHYLOGENY AND GENERAL CLASSIFICATION OF INVERTEBRATES:

HELMINTHOLOGY	KRUIDENIER, SILVERMAN, LEVINE
INVERTEBRATE ZOOLOGY	MATTESON, SWEENEY
INVERTEBRATE PHYSIOLOGY	PROSSER, SWEENEY
PARASITOLOGY	KRUIDENIER, SILVERMAN,ALGER
PROTOZOOLOGY	SMALL, LEVINE

EMBRYOLOGY AND BASIC KNOWLEDGE OF CELLS AND TISSUES:

CYTOLOGY	DAVENPORT
DEVELOPMENTAL BIOLOGY	WHITT
EMBRYOLOGY AND REGENERATION	DAVENPORT, WATTERSON,STOCUM
TOXICOLOGY	INGLE
ULTRASTRUCTURE	HALL

ECOLOGY, PRINCIPLES OF TAXONOMY, NATURAL HISTORY:

ECOLOGY	KENDEIGH, WILLSON, GHENT, GETZ
ETHOLOGY	BANKS, HIRSCH, SALMON
HERPETOLOGY	
ICHTHYOLOGY	SHOEMAKER, P SMITH
LIMNOLOGY	MATTESON, BENNETT
MAMMALOGY	HOFFMEISTER, LEE, LELAND
ORNITHOLOGY	KENDEIGH
TAXONOMY	EADES, H SMITH
WILDLIFE	KENDEIGH, SHOEMAKER, SANDERSON

GENETICS AND EVOLUTION:

GENETICS	KITZMILLER, NANNEY, BROWN,
EVOLUTIONARY THEORY	FRAZZETTA

19293 CONF ARR

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Date.....

College.....

Curriculum.....

Class.....

Subject	Type	Course Number	Section	Credit	CALL Number	M	Tu	W	Th	F	S	Memo

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